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RCA P60921 USER MANUAL

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USER'S GUIDE

GUIDEplus+™
GEMSTAR

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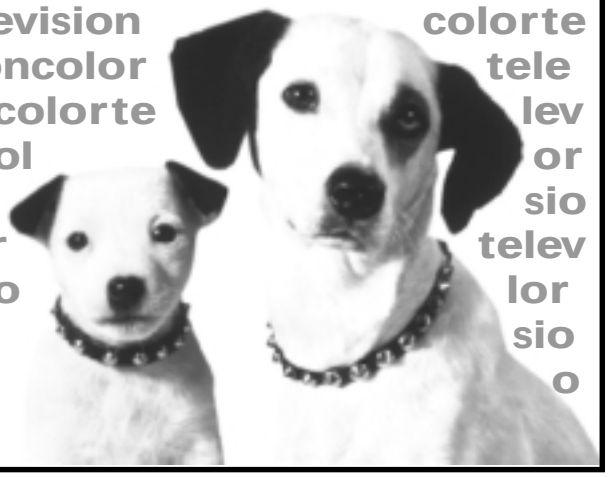
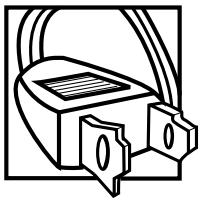


IMPORTANT INFORMATION

WARNING

To reduce the risk of fire or shock hazard, do not expose this TV to rain or moisture.



WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Caution: To reduce the risk of electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqú au fond.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

If fixed (non-moving) images are left on the screen for long periods, they may be permanently imprinted on the screen. Such images include network logos, phone numbers, and video games. This damage is not covered by your warranty. Extended viewing of channels displaying these images should be avoided.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Product Registration

Please fill out the product registration card and return it immediately. Returning the card allows us to contact you if needed.

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. The numbers are located on the back of the television.

Model No. _____

Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

VCR Plus+, C³, PlusCode and GUIDE Plus+ are trademarks of Gemstar Development Corporation.

The VCR Plus+ and GUIDE Plus+ systems are manufactured under license from Gemstar Development Corporation and VCR Index Systems B.V., respectively.

GEMSTAR IS NOT IN ANY WAY LIABLE FOR THE ACCURACY OF THE PROGRAM SCHEDULE INFORMATION PROVIDED BY THE GUIDE PLUS+ SYSTEM. IN NO EVENT SHALL GEMSTAR BE LIABLE FOR ANY AMOUNTS REPRESENTING LOSS OF PROFITS, LOSS OF BUSINESS, OR INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PROVISION OR USE OF ANY INFORMATION EQUIPMENT, OR SERVICES RELATING TO THE GUIDE PLUS+ SYSTEM.

VCR required for recording.

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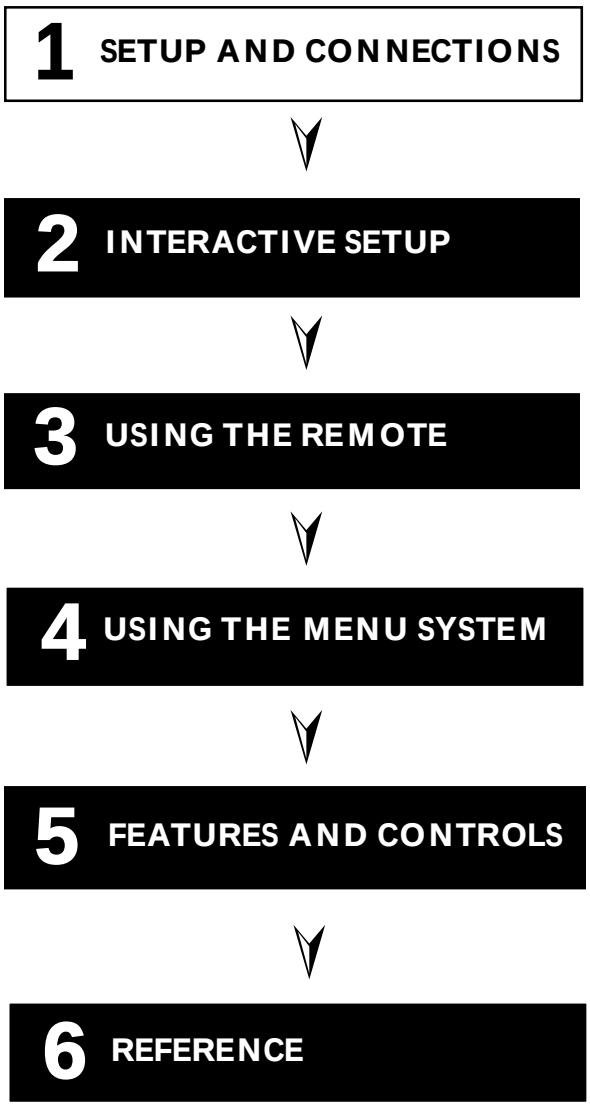
SETUP AND CONNECTIONS

GETTING STARTED

This manual is designed to get you started quickly. The first five sections of the manual show you how to get your TV set up and connected, run the Interactive Setup, program the remote, and use all of the menus, features, and controls of your TV.

The Reference section in the back of the book contains troubleshooting tips, care and cleaning instructions, accessory ordering information and your warranty.

Well… if your TV's out of the box, let's get started.



Check out the notes that have been added throughout the manual in these Tip Boxes. There are some important tips that will help you get the most from your TV.

SETUP AND CONNECTIONS

STEP 1: UNPACK THE TV

Make sure to locate the remote control.

STEP 2: CONNECT YOUR TV

There are three types of connections outlined in this section:

TV Only: If you're only going to connect the TV to your home antenna or cable system.

The Basic Connection: If you're going to connect the TV to a VCR or satellite receiver.

Advanced Connections: If you're going to make multiple connections, hooking up the TV to a VCR and a satellite receiver.

Cable information and illustrations are given for each type of connection. Once you have completed your desired connection you may skip forward to Step 3.

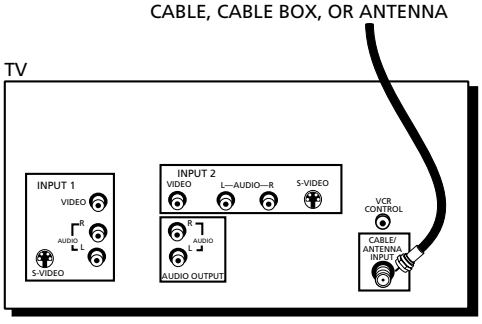
TV ONLY(PIP NOT AVAILABLE)

This is a basic connection from an antenna or cable system to your TV. Connect the cable into the Cable/Antenna jack as shown.

Cables

You will use the following cable to make your connection:

Coaxial Cable: These cables carry audio and video signals to the TV from an antenna, cable, or cable box.



Once you have completed this connection you may skip to Step 3.

Important Stand Information

CAUTION: Choose the location for your TV carefully. Take precautions that the stand or other furniture on which the TV is placed is properly located (see Important Safeguards sheet) and of adequate size and strength to prevent the TV from accidentally being tipped over, pushed off, or pulled off. This could cause damage to the TV and/or personal injury.

Before You Connect

Protect against power surges:

- **Connect all components before plugging any power cords into the wall outlet.**
- **Turn off the TV and/or component before connecting or disconnecting any cables.**
- **Make sure all antennas and cables are properly grounded. Refer to the Important Safeguards sheet packed with your TV.**

This Connection Will Not Allow You to Use Your PIP

Your TV is equipped with a single tuner, which means you must connect with a second video source using Audio/Video Cables to view PIP. This TV Only connection will not enable you to use your PIP, but will get your TV up and running quickly.

Refer to *Advanced Connections* for connecting Audio/Video cables to your VCR or other video component.

SETUP AND CONNECTIONS

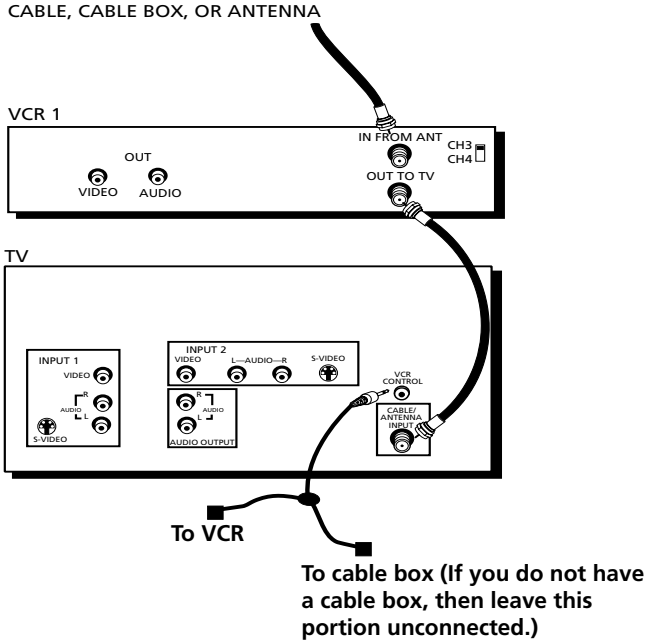
THE BASIC CONNECTION(PIP NOT AVAILABLE)

The basic connection below (TV and VCR) is the most common connection and is therefore used to illustrate a single component connection with your TV. For better sound and picture quality and multiple component connection information refer to the next section, *Advanced Connections*.

Cables

You will use the following type of cable to make your connection:

Coaxial Cables: In this connection, two coaxial cables are used: one connects from an antenna, cable, or cable box to the VCR, and one connects from the VCR to the TV. These cables carry both audio and video signals.



Once you have completed this connection you may skip to Step 3, "Connect the IR Controller."

This Connection Will Not Allow You to Use PIP

Your TV is equipped with a single tuner, which means you must connect with a second video source using Audio/Video Cables to view PIP. This Basic Connection will not enable you to use your PIP, but will get your TV up and running quickly.

Refer to *Advanced Connections* for connecting Audio/Video cables to your VCR or other video component.

How to View the VCR

To watch the VCR in this connection tune TV to Channel 3 or 4.

Later, in the *Interactive Setup* section you will program the TV to automatically tune to Channel 3 or 4 when you turn on the VCR.

SETUP AND CONNECTIONS

ADVANCED CONNECTIONS

Advanced connections give you better sound and video by separating the audio and video signals and enabling you to connect multiple components.

This section describes the types of inputs available on the back of your TV and suggests ways you can use them for optimum performance.

Once you have made your connections you will need to program the TV to tune to the correct Video INPUT channel in order to see and hear audio and video from the component. You will program this later in the *Interactive Setup.*

Back of the TV

The diagram below describes each of the back panel jacks. When connecting A/V cables, be sure to connect corresponding OUTPUTS and INPUTS (Video to Video, Right Audio to Right Audio, etc.).

Input 1

Connect any of the following components:

- VCR
- Laserdisc Player
- Satellite Receiver
- Internet Access Device
- DVD Player

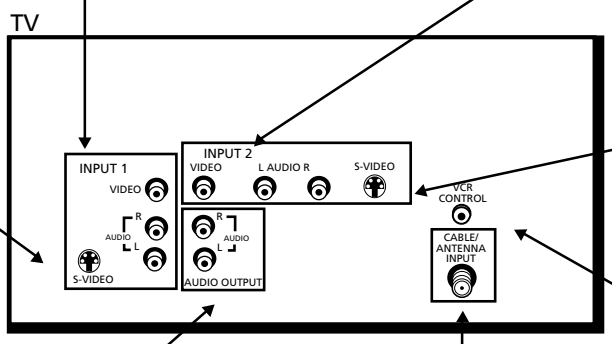
To view the component connected to Input 1: Use the WHO•INPUT button on the remote.

Input 2

Connect any of the following components:

- VCR
- Laserdisc Player
- Satellite Receiver
- Internet Access Device
- DVD Player

To view the component connected to Input 2: Use the WHO•INPUT button on the remote.



S-Video

This optional connection can be used for better video quality picture.

S-Video

This optional connection can be used for better video quality picture.

Audio Outputs

Connect to an audio receiver or amplifier for variable controlled or fixed level stereo output.

Cable/Antenna

Takes the signal input from a cable, cable box, or an off-air antenna. Can also be used for basic component connections.

VCR Control

Connect Guide Plus+ controller for one-button recording and channel tuning from the Guide.

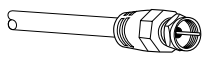
SETUP AND CONNECTIONS

Sample Connections

The following are sample connection scenarios you may encounter when connecting components to your TV. Note: those components which offer an S-Video connection, such as DVD, VCR or satellite receivers, must match their S-Video connection with their audio INPUT connection.

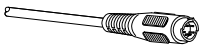
Cables

You will use the following types of cables to make your connection:



Coaxial Cables: Carry the signal from the antenna or cable directly to the television or through a cable box, as needed by your cable system.

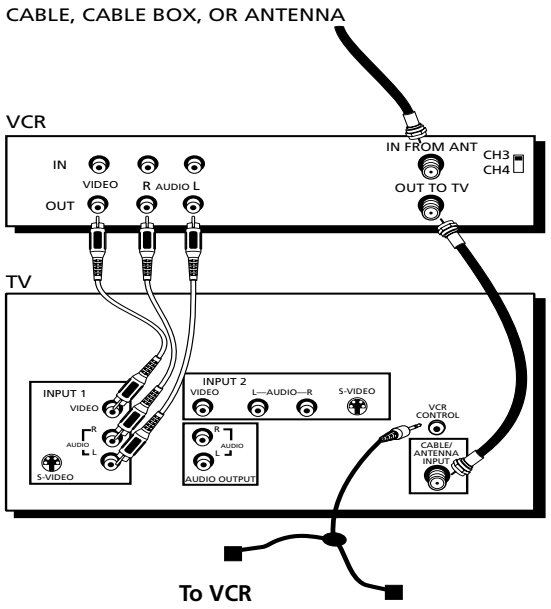
Audio/Video Cables: Carry audio and video from a component to the TV.



S-Video Cable: Carry video from an S-Video capable component which provides best picture quality.

TV and Stereo VCR

Compared to the Basic Connection, using Audio/Video and S-Video (if available) cables will enhance the sound and picture quality from a component.



To cable box (If you do not have a cable box, then leave this portion unconnected.)

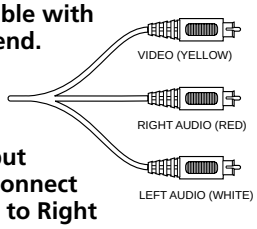
How to View Your VCR

To watch the VCR in this connection, press TV to put the remote control into TV mode, then press WHO•INPUT to toggle through the video (VID) inputs.

In the *Interactive Setup* section you can program the TV to automatically tune to the VID input channel when you turn on the VCR.

Most Audio/Video cables are combined into one cable with three heads on each end.

We show individual cables in these sample connections. Either may be used, but you must be sure to connect Video to Video, Right to Right and Left to Left.



Cautions:

Position Cables to Avoid Audio Hum or Interference

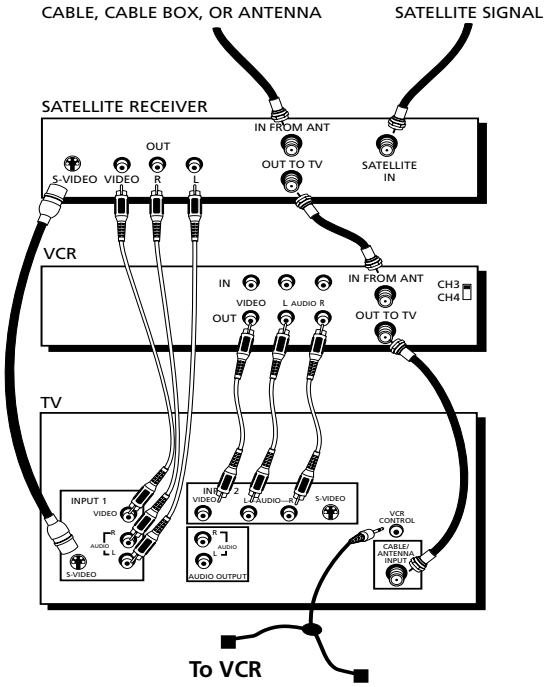
- **Insert all cables firmly into jacks.**
- **Place the audio/video cables to the sides of the TV's back panel instead of straight down the middle.**
- **Try not to coil any twin-lead cables and keep them away from the audio/video cables.**

Protect Your Components From Overheating

- **Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely.**
- **Do not stack components.**
- **Allow adequate ventilation when placing your components in a stand.**
- **Place an amplifier on the top shelf of the stand so heated air rising from it will not flow around other components.**

SETUP AND CONNECTIONS

TV, VCR and Satellite Receiver



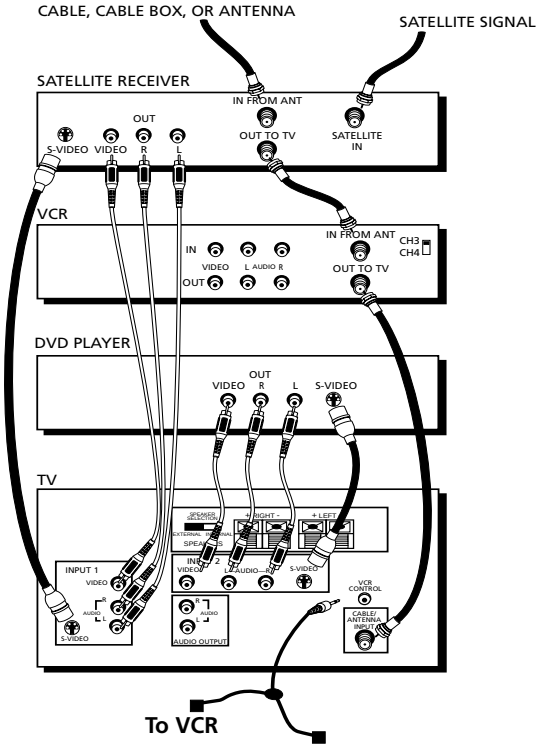
To cable box (If you do not have a cable box, then leave this portion unconnected.)

How to View Your Components

To watch the satellite receiver in this connection, press TV to put the remote control into TV mode, then press WHO•INPUT to scroll through the video input channels until you tune to VID (or SVID) input.

To watch the VCR in this connection, press the WHO•INPUT to scroll through the video input channels until you tune to VID2.

In the *Interactive Setup* you can program the TV to automatically tune to the correct input channel when you turn on your component.



To cable box (If you do not have a cable box, then leave this portion unconnected.)

How to View Your Components

To watch the Satellite Receiver in this connection, press TV to put the remote control into TV mode, then press WHO•INPUT to scroll through the video input channels until you tune to VID1 (or SVID 1) input.

To watch the VCR in this connection, press the WHO•INPUT to scroll through the video input channels until you tune to VID2.

To watch the DVD player in this connection, press TV to put the remote control into TV mode, then press WHO•INPUT to scroll through the video input channels until you tune to VID2 (or SVID 2) input.

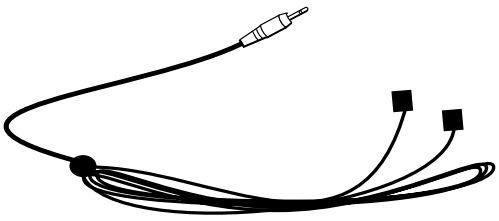
In the *Interactive Setup* you can program the TV to automatically tune to the correct input channel when you turn on your component.

SETUP AND CONNECTIONS

STEP 3: CONNECT THE IR CONTROLLER

The IR (Infrared) Controller enables the GUIDE Plus+ system to control your VCR and cable box (if necessary) so you can tune to television channels and even start recording a program from the GUIDE Plus+ system.

After you have affixed the ends of the controller to the necessary components (VCR, or Cable box), you will use the on-screen interactive setup routine for the GUIDE Plus+ system to test the connected components.

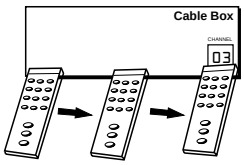


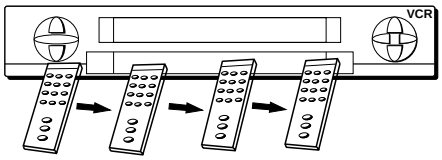
The IR Controller is used to send commands to your VCR and/or cable box.

ATTACHING THE IR CONTROLLER

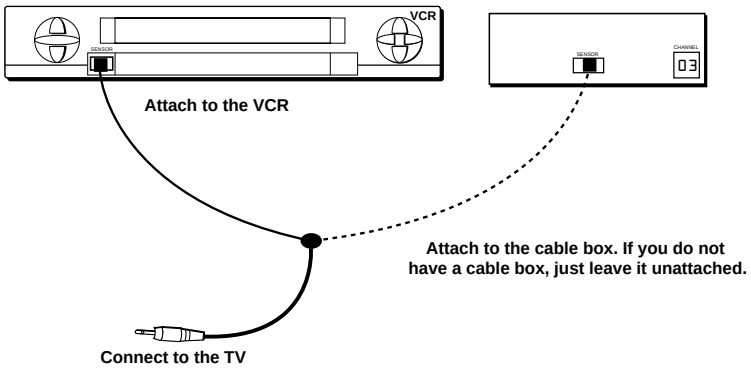
Some components label the infrared remote sensor, and others do not. If your component is labeled, affix the IR controller directly over the sensor. If the IR location is not labeled on your component, you need to use to use the component's remote control to locate the sensor.

1. Hold the component's remote control (not the remote that came with your TV) so that it is touching the front of the component.
2. Slowly move the remote over the front of the component while pressing the remote power button on and off. (Be sure to press and release the power button each time you move the remote. Holding the button may not work.)





3. When the component turns off or on, you've located the sensor.
4. Affix the controller's node directly to the remote sensor.



Note

Since the adhesive is lo-tack, it will not mar the finish of VCRs, cable boxes, or other products, but the adhesive will wear down if removed and applied many times.

Tip

You may want to use a piece of clear plastic tape to temporarily affix the controller's node until you have completed the interactive setup. That way you can easily move it if you have not placed it exactly over the sensor.

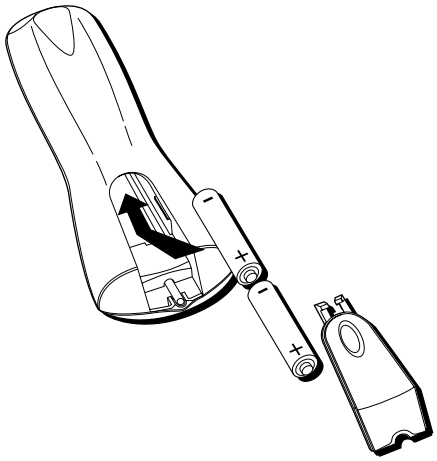
SETUP AND CONNECTIONS

STEP 4: PLUG IN THE TV

Plug the end into the wall outlet, matching the wide blade of the plug with the wide slot in the outlet. Be sure to insert the plug completely.

STEP 5: PLACE BATTERIES IN REMOTE

- Remove the battery compartment cover from the back of the remote.
- Insert fresh batteries. Make sure that the polarities (+ and -) are aligned correctly.
- Replace the cover.



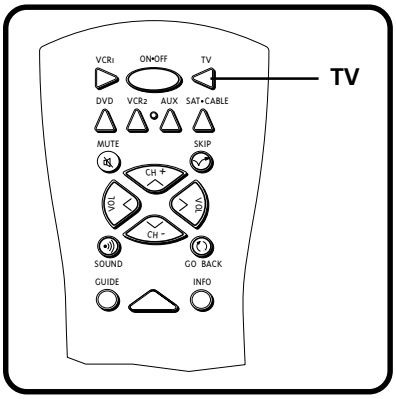
STEP 6: TURN ON THE TV

Press TV on the remote, or press POWER on the TV itself.

Pressing the TV button not only turns on the TV, but puts the remote into TV mode, so that the buttons on the remote will control TV functions.

ON-SCREEN PROGRAM GUIDE

The TV is designed to bring up the GUIDE Plus+ on-screen program guide when you use the TV button on the remote to turn on the TV (after you have set up the GUIDE Plus+ system). For more information on setting up the GUIDE Plus+ system, see the next section, *Interactive Setup*.



To get out of the GUIDE Plus+ System:

- Press OK to exit the GUIDE Plus+ system and tune to the highlighted channel.
- Press GUIDE to exit the GUIDE Plus+ system and tune to the channel displayed in the View window.
- Press CLEAR to exit the GUIDE Plus+ system and go to the last channel you were watching.

If the picture appears to have a double or triple image or if you notice rings or halos around objects, you may have to adjust the color convergence. Details can be found under the Screen menu heading in the *"Using the Menu* System" section of this manual.

STEP 7: PROGRAM THE TV

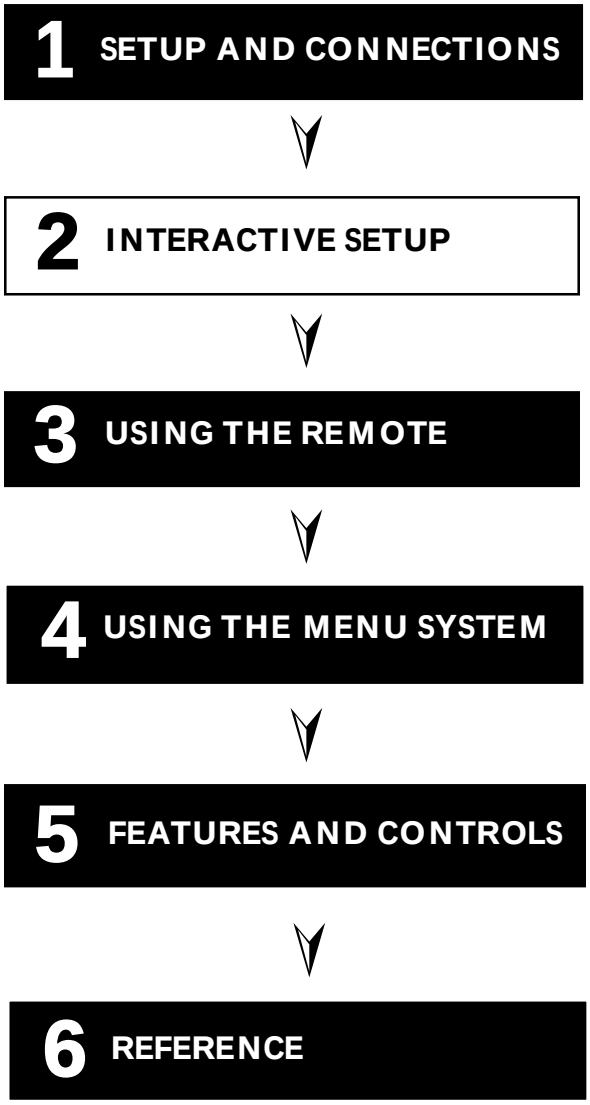
Proceed to the next section, *Interactive Setup*. The interactive setup routine walks you through the steps needed to fully configure the TV. The first steps ask you to select your preferred language for the menu system and to begin the auto channel search, which puts available cable TV or antenna signals into the TV's memory.

INTERACTIVE SETUP

THERE'S AN ON-SCREEN SETUP ROUTINE

The interactive setup routine helps you through the steps needed to configure the TV and set up the GUIDE Plus+ menu system:

- Select a menu language
- Search for available channels
- Set up the GUIDE Plus+ system
- Set the time
- Set the VCR1 channel
- Set the VCR2 channel
- Set the DVD channel
- Set the SAT/CABLE channel
- Make the channel list and labels



INTERACTIVE SETUP

USING POINT AND SELECT

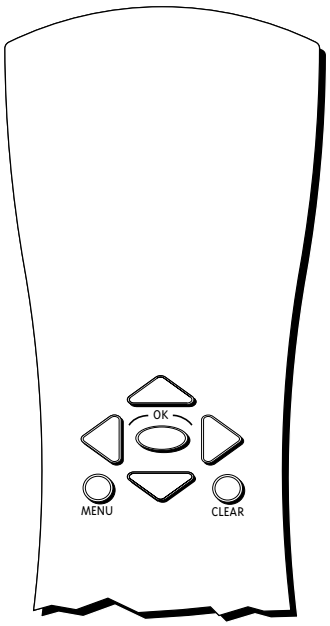
You only need to know one rule when using the remote to access on-screen menus and control panels: point and select. The point and select method has two steps.

1. **Point** to a menu item using the MOVE arrows on the remote.

   To point up or down, press the up or down arrows. To point left or right, press the left or right arrows.

2. **Select** a menu item by pressing OK.

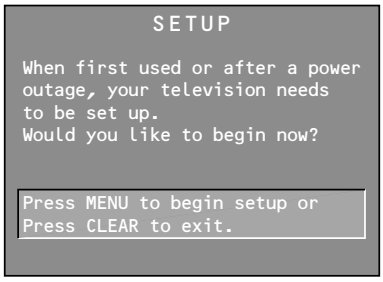
   Selecting an item tells the TV's menu system to go ahead and make the change or go to a place you have indicated.



Point and Select buttons

ENTERING SETUP

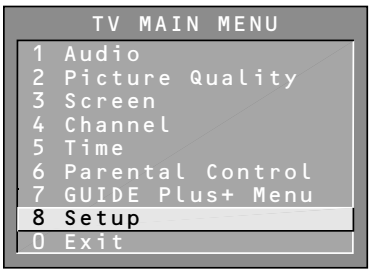
The first screen of the Interactive Setup appears automatically when you turn on your TV for the first time or after a power outage.


SETUP
When first used or after a power outage, your television needs to be set up.
Would you like to begin now?
Press MENU to begin setup or
Press CLEAR to exit.

1. Press MENU to begin setup or CLEAR to exit.

You can also access the Interactive Setup through the Main menu:

1. Press MENU to bring up the Main menu.



2. Point to *Setup* and press OK. The first Setup screen comes up, asking you to confirm that you want to begin.

You can also select a menu item by entering the item number with the number buttons on the remote.

Press CLEAR at any time to remove all displays from the screen and return to TV viewing.

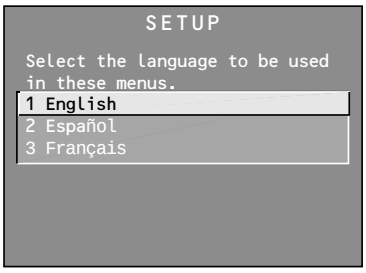
Many VCR user manuals refer to a PROGRAM button. The MENU button on this remote works as a PROGRAM button in VCR mode. Other manuals may refer to a SELECT button. The OK button on this remote works as a SELECT button.

INTERACTIVE SETUP

3. Point to *Begin setup now* and press OK.

SELECTING A LANGUAGE

The first part of the setup routine asks you to select your preferred language for the menu system.



1. Point to your preferred language for the menu system.
2. Press OK to select that language.

AUTO CHANNEL SEARCH

The next part of the setup routine asks you if you want the TV to search for all channels viewable through your antenna or cable TV system. This is sometimes called "auto programming."

1. Press OK to tell the TV to begin searching for channels. The display gives you a progress report and tells you when it has finished.
2. Press OK to continue.

If you skip Auto Channel Search now, you can access it later through the Channel menu. See *Using the Menu System* for more details.

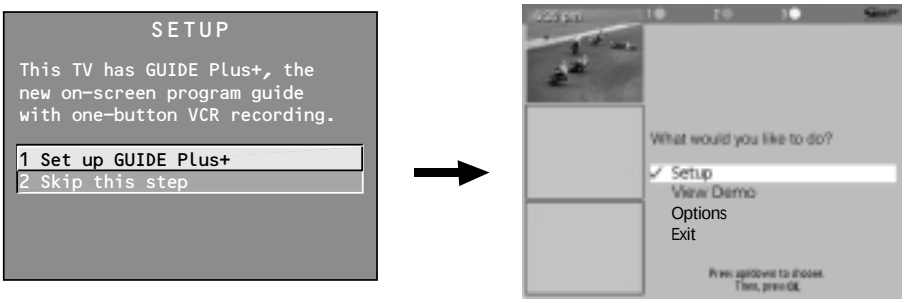
INTERACTIVE SETUP

THE GUIDE Plus+ SYSTEM

The next step lets you set up the GUIDE Plus+ system to display your local program listings, and control your cable box and VCR.

Press OK to bring up the GUIDE Plus+ initial menu or point to *Skip this Step* to move to the next step in the Interactive Setup.

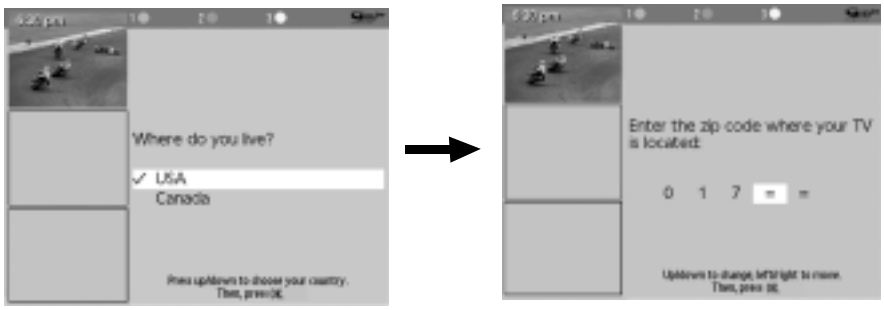
You can set up the GUIDE Plus+ system during Interactive Setup or by selecting the *GUIDE Plus+ Menu* from the Main Menu. You can also access the GUIDE Plus+ menus by pressing menu on the remote and selecting GUIDE Plus+ Menu.



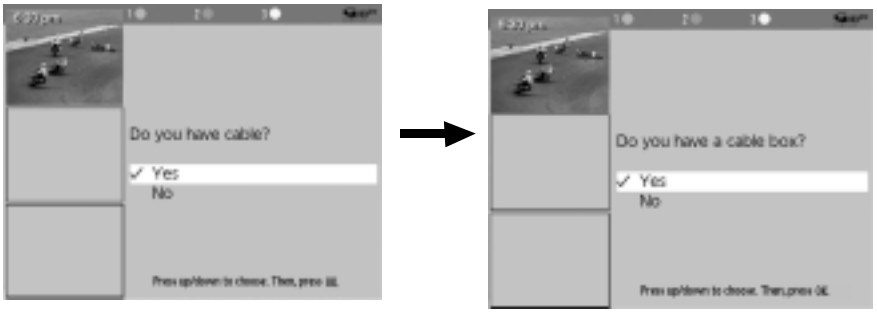
SETTING UP THE GUIDE Plus+ SYSTEM

To complete GUIDE Plus+ setup, the GUIDE Plus+ IR controllers must be connected to your cable box and VCR if you have them. Refer to the *Setup and Connections* section for additional information.

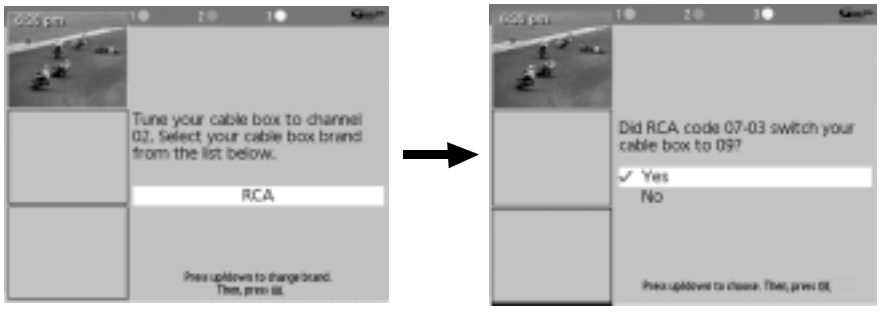
Select your Country and enter your ZIP or Postal code.



The next series of screens asks you about your cable TV setup. If you have a cable box, you need to set the GUIDE Plus+ system to control it. Otherwise, it may not be able to locate and download program information.



Tune your cable box to Channel 2 and then select the brand of your cable box from the choices available. The system then searches for the correct code to control your cable box. When your cable box switches to channel 9 it has located the correct code.


Tune your cable box to channel 02. Select your cable box brand from the list below.
RCA
Did RCA code 07-03 switch your cable box to 09?
Yes
No

INTERACTIVE SETUP

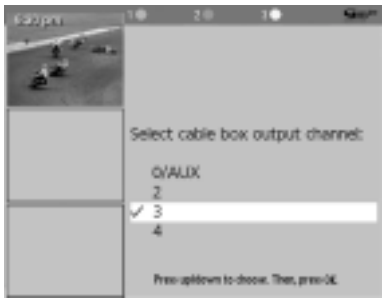
Select Yes if the cable box changed to channel 9, or No if it did not. If you select No, the system will try another code.

If the GUIDE Plus+ system cannot recognize either your cable box or VCR after several tries, a screen stating "Cable Box (VCR) test failed...Please consult your manual and try again" appears. You have a choice to either *Try Again* or *Skip Cable Box Setup*. If you get this message, you should also:

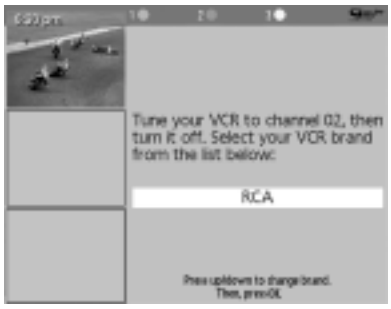
- Double check the brand of your cable box or VCR, and try entering it again.
- Check to make sure the IR controllers are positioned correctly.

If you choose to skip the cable box (or VCR) setup some features of the guide may not be available until you successfully complete this procedure.

Once the correct model of cable box (or VCR) has been identified, you need to set the cable box's output channel. Enter the channel you use to view channels through your cable box—usually 3 or 4. Consult your cable box's instruction book or your cable company if you are not sure. Choose *0* to use VIDEO INPUT.

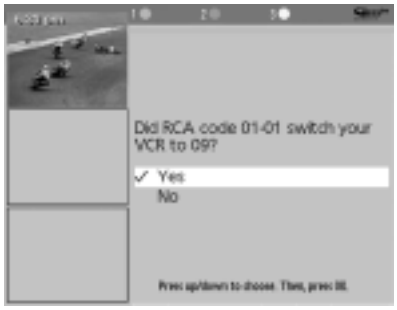


Select *YES* if you have a VCR, or *NO* if not. (Answering *NO* automatically skips forward to the end of GUIDE Plus+ setup.)
Tune your VCR to channel 2 and turn it off.
Enter the brand of your VCR.



When the GUIDE Plus+ system correctly identifies the correct code for your VCR, the VCR's tuner changes to channel 9.
Select *YES* if the VCR automatically changed to channel 9, or *NO* if it did not.
If you select *NO*, the system will try another code.

The last screen comes up when you've successfully finished the GUIDE Plus+ setup.



Congratulations! Your Setup is now complete!
Within 24 hours, your TV will receive your local lineup and program information.

Remember:

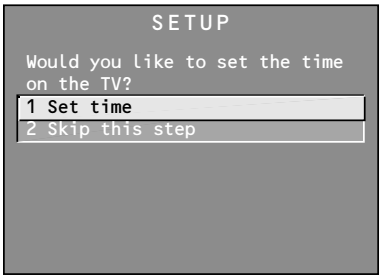
- Leave your cable box turned ON to download program information.
- Leave your VCR turned OFF to record programs and download information.

Press OK to leave the GUIDE Plus+ system setup.

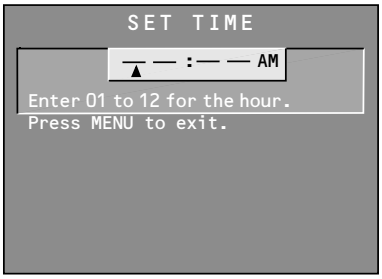
INTERACTIVE SETUP

SETTING THE TIME

The next step in the Interactive Setup lets you set the time of day. If your GUIDE Plus+ system has not completed its first download, you need to set the time. Once the system has completed its first download, it sets the time for you automatically.



1. Press MENU or OK to bring up the SET TIME control panel.



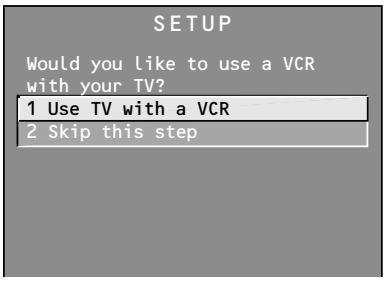
2. Use the left and right arrows to point to the hour and minutes spaces. Use the digits to enter the numbers and the up and down arrows to change from AM to PM.
3. Press MENU or OK to continue.

INTERACTIVE SETUP

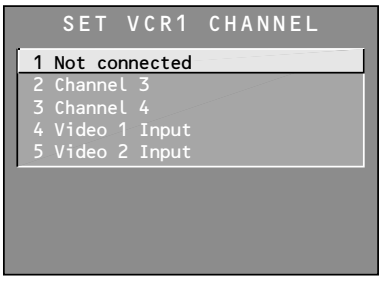
SETTING THE VCR1 CHANNEL (AUTO TUNING)

The next step lets you set the VCR1 channel. When you set the VCR1 channel, you're telling the TV what channel to tune to when you press the VCR1 button on the remote. This is called auto tuning.

Indicate which input you used to connect the VCR. If you don't have a VCR1 component connected to the TV, skip this step or select *Not Connected* from the VCR1 Channel choice list. (For more information, see Auto Tuning in the *Using the Menus* section.)



1. Press MENU or OK to bring up the VCR1 choice list.

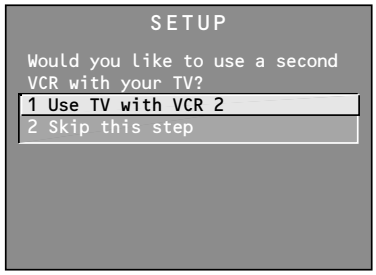


2. Point to the choice that matches the way you have your VCR connected to the TV.
3. Press MENU or OK to continue.

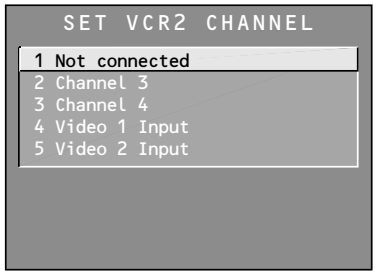
SETTING THE VCR2 CHANNEL (AUTO TUNING)

The next step lets you set the VCR2 channel. When you set the VCR2 channel, you're telling the TV what channel to tune to when you press the VCR2 button on the remote.

Indicate which input you used to connect a second VCR. If you don't have a second VCR component connected to the TV, skip this step or select *Not Connected* from the VCR2 Channel choice list. (For more information, see Auto Tuning in the *Using the Menu System* section.)



1. Press MENU or OK to bring up the VCR2 choice list.



2. Point to the choice that matches the way you have your second VCR connected to the TV.
3. Press MENU or OK to continue.

SETTING THE DVD CHANNEL (AUTO TUNING)

The next step lets you set the DVD channel. When you set the DVD channel, you're telling the TV what channel to tune to when you press the DVD button on the remote.

Indicate which input you used to connect a DVD player. If you don't have a DVD player connected to the TV, skip this step or select *Not Connected* from the DVD Channel choice list. (For more information, see Auto Tuning in the *Using the Menus* section.)

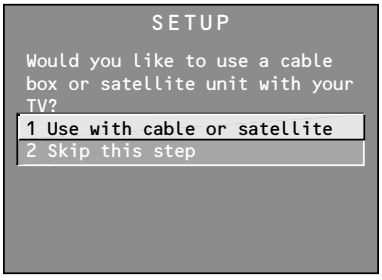
1. Press MENU or OK to bring up the DVD choice list.

2. Point to the choice that matches the way you have your DVD player connected to the TV.
3. Press MENU or OK to continue.

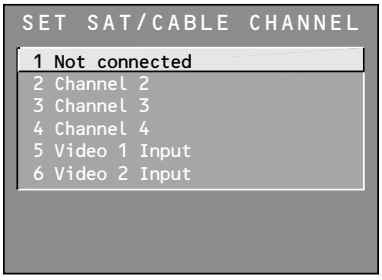
SETTING THE SAT/CABLE CHANNEL (AUTO TUNING)

The next step lets you set the SAT/CABLE channel. When you set the SAT/CABLE channel, you're telling the TV what channel to tune to when you press the SAT•CABLE button on the remote.

Indicate which input you used to connect a satellite receiver or a cable box. If you don't have a satellite receiver or cable box connected to the TV, skip this step or select *Not Connected* from the SAT/CABLE Channel choice list. (For more information, see Auto Tuning in the *Using the Menus* section.)



1. Press MENU or OK to bring up the SAT/CABLE choice list.



2. Point to the choice that matches the way you have your satellite receiver or cable box connected to the TV.
3. Press MENU or OK to continue.

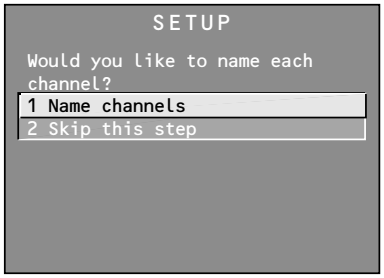
If You Have Both a Satellite Receiver and a Cable Box Connected to the TV

The remote cannot control both a cable box and the satellite receiver. If you choose to have the remote control the satellite receiver, you must then use your cable box remote to control the cable box. You may, however, prefer to use the satellite receiver remote for satellite programming, and set your SAT•CABLE button to control your cable box. It's your choice.

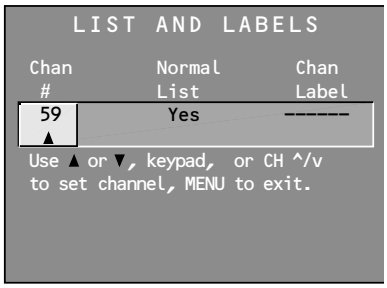
INTERACTIVE SETUP

LABELING THE CHANNELS

This last step in the Interactive Setup lets you edit your channel list and label your channels. (For more information, see List and Labels in the *Using the Menus* section.)



1. Press MENU or OK to bring up the LIST AND LABELS control panel.



2. Use the left and right arrows to point to the three different areas of the control panel (called "fields").
3. Use the up and down arrows to scroll through the numbers and letters and select *Yes* or *No* in the *Normal List* field. You may wish to refer to the call letters listed in your newspaper's TV section for ideas on labeling the channels.
4. Repeat this process for each of your channels. Then press MENU or OK to continue. The TV can store up to 27 labels in memory.

Use the CH ^ (channel up) or CH v (channel down) buttons to change channels in the Chan # field. This works even if you're not in the Chan # field. Or, enter the channel number directly using the number buttons on the universal remote. To enter a number greater than 99, press and hold "1" to enter the hundreds digit, then press the two remaining numbers.

The list and labels feature can also be accessed from the Channel menu. Because this procedure can be time consuming, feel free to skip this step and come back to it later.

PROGRAMMING THE REMOTE

Since you've gone this far, you can take a few minutes to program the remote to control your VCR, satellite receiver, or other components. To find out how to program the remote, go to the next section.

USING THE REMOTE

HOW TO USE YOUR UNIVERSAL REMOTE

This section defines the buttons of the remote and how to program it to control other components.

The universal remote can be programmed to control most brands of remote controllable VCRs, satellite receivers and cable boxes. If you have an RCA, GE, or PROSCAN component, you may not need to program it at all.

1 SETUP AND CONNECTIONS

2 INTERACTIVE SETUP

3 USING THE REMOTE

4 USING THE MENU SYSTEM

5 FEATURES AND CONTROLS

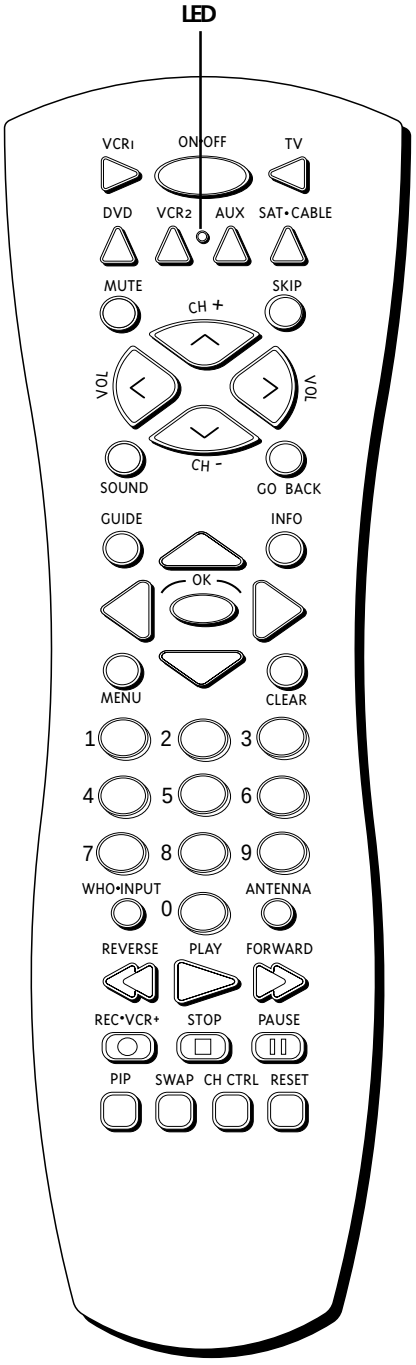
6 REFERENCE

Modes of Operation

Because this universal remote can control several different components (DVD player, VCR, Cable Box, etc.), it uses operational modes triggered by the component buttons. For example if you want the remote to control the TV, you would press the TV button to put the remote into TV mode before you could control the TV.

USING THE REMOTE

REMOTE BUTTONS



ON•OFF When in TV mode, turns TV on and off. If in another device mode (VCR, DVD, Satellite, etc.) and programmed, will turn the device on and off. When pressed twice within two seconds, all devices that are on will be turned off (this feature only works with most RCA, PROSCAN and GE products).

VCR1 Puts the remote in VCR mode and if autotuning is enabled, it will turn on the TV and tune to the correct channel.

TV Turns on the TV and puts the remote in TV mode. Also displays channel information.

DVD Puts the remote in DVD mode and if auto tuning is enabled, it will turn on the TV and tune to the correct channel.

VCR2 Puts the remote in VCR2 mode and if auto tuning is enabled, it will turn on the TV and tune to the correct channel.

LED Red light which indicates programming mode when programming the remote. Also displays when a valid remote button is pressed.

AUX When pressed, will turn on the component you have programmed it to control. Also turns on the TV if auto tuning is enabled and the remote is programmed to control the TV.

SAT•CABLE Puts the remote in SAT•CABLE mode and if auto tuning is enabled, it will turn on the TV and tune to the correct channel.

MUTE Reduces the TV's volume to its minimum level. Press again to restore the volume.

SKIP Press once before changing channels and the TV will wait 30 seconds before returning you to the original channel. Press repeatedly to add more time.

CH ^ or CH v Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

VOL< or VOL> Decreases or increases the TV's volume.

SOUND Press once to display the audio processor choice list. Point and select to choose a different processor or press CLEAR to exit.

GO BACK Returns you to the previous channel.

GUIDE Brings up and exits the GUIDE Plus+ system. In SAT•CABLE mode, brings up available on-screen guides.

INFO Brings up channel information.

MOVE (Arrows) Used to point to different items in the menu system. Also used to adjust the menu controls. Also move the PIP window when no menus are on the screen.

OK When in the menu system, selects highlighted items or returns you to the previous menu.

USING THE REMOTE

MENU Brings up the Main menu and selects highlighted items. When in VCR mode, it functions as a PROGRAM button.

CLEAR Removes any menu or display from the screen and returns you to TV viewing. Also exits the GUIDE Plus+ menu system.

(0-9) Number Buttons Enters channel numbers, digits for programming the remote, and time settings directly though the remote control. To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the first digit, release, then add the second two. For example: to tune to channel 123, press and hold 1, release, press 2, then press 3.

WHO•INPUT In TV mode, press to toggle through the available input sources (VID1/SVID1, VID2/SVID2, current channel). In SAT mode, press to select available channel lists (RCA, Proscan, and GE only).

ANTENNA Functions as TV/VCR button in VCR mode and TV/receiver button in SAT•CABLE mode.

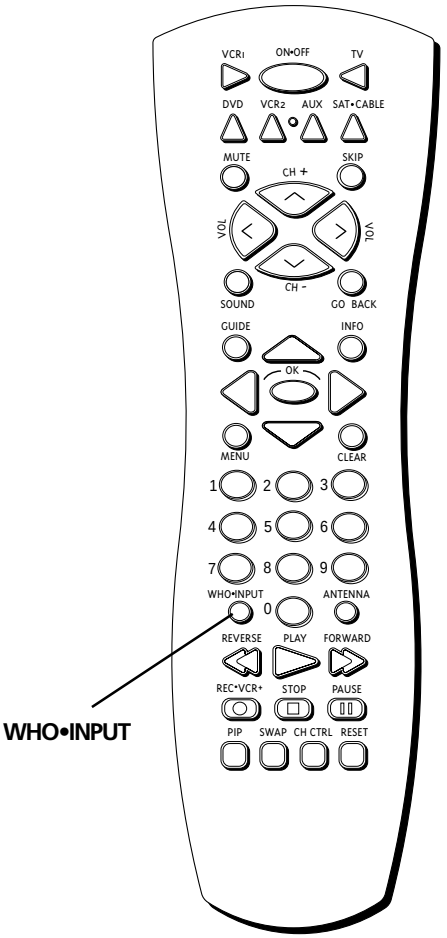
REVERSE, PLAY, FORWARD, REC•VCR+, STOP, PAUSE If programmed, provides transport control for some remote-controllable VCRs, DVD players, laserdisc players, tape decks, and CD players. Pressing REC•VCR+ when using the GUIDE Plus+ system sets the VCR to record a program.

PIP Brings up the small picture-in-picture window. Press again to remove the PIP window. If you have selected the option labelled *Alternate with PIP* while in the *PIP Caption Display* menu, then you will be able to toggle closed captioning between the main screen and the PIP window by pressing the PIP button.

SWAP Swaps the main picture with the PIP window.

CH CTRL Selects the picture window (that is, the main or PIP window) to be changed by the CH ^ (channel up), CH v (channel down), or WHO•INPUT buttons.

RESET Resets picture quality controls to the *Bright Lighting* Picture Control Preset. Point and select to choose a different Picture Control Preset. Also used to reset the settings in a menu, such as the Parental Controls menu.



USING THE WHO•INPUT BUTTON

Use the WHO•INPUT button to toggle through the available input sources and view the component you have connected to the TV.

1. Press TV to place the remote in TV mode. Make sure that the component you want to view is turned on.
2. Press WHO•INPUT to tune to an available input source.
3. Continue to press WHO•INPUT to scroll through the input sources.

Modes of Operation

Because this universal remote can control several different components (DVD player, VCR, Cable Box, etc.), it uses operational modes triggered by the component buttons. For example if you want the remote to control the TV, you would press the TV button to put the remote into TV mode before you could control the TV.

PROGRAMMING THE REMOTE

The universal remote can be programmed to control most brands of remote controllable VCRs, satellite receivers and cable boxes. The remote is already programmed to control most RCA, GE and PROSCAN TVs, VCRs, DVD players, laserdisc players and satellite receivers.

TESTING THE REMOTE

To determine whether the universal remote needs to be programmed, turn a device ON, such as a VCR, point the remote at the VCR, and press the VCR1 button. Then press ON•OFF or CH ^ (channel up) or CH v (channel down) to see if the VCR responds to the remote commands. If not, the remote needs to be programmed.

Note: Programming the remote will not work with the AUX button in this model.

PROGRAMMING THE REMOTE

Using Automatic Code Search

The following instructions can be used to program the remote to control each of the devices connected to your TV. If you want to exit the automatic code search without programming any of your devices, press and hold CLEAR until the LED turns off.

1. Turn on the device you want to control (VCR, SAT, etc.).
2. Press and hold the button you want to program (VCR1, VCR2, etc.). While holding the device button, press and hold ON•OFF until the red light on the remote turns on, then release both buttons.
3. Press and release PLAY, then wait 5 seconds or until the LED stops flashing.

   At this point the remote is searching for the correct code to program. If, after 5 seconds, the device you want to control does not turn off, press PLAY again to tell the remote to search the next set of codes.

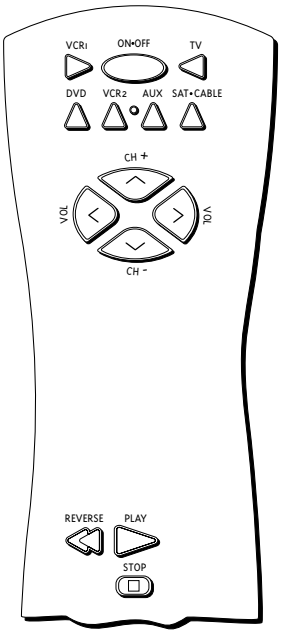
   Continue pressing PLAY until the device turns off or you have searched through all of the codes. There are 20 total sets of codes. If the device does not turn off after pressing PLAY 20 times, then the remote cannot control that particular device.

If the device you want to control *does* turn off:

1. Press and release REVERSE, then wait 2 seconds. Repeat this step until the device turns back ON.
2. To finish, press and hold STOP until the red light on the remote turns off.

Using Direct Entry

1. Turn on the component to be programmed.



You'll use these buttons when you program the remote to control any device.

The remote may not operate all models of all brands.

2. Look up the brand and code number(s) for the component on the code list on the last page of this section, *Using the Remote*.
3. Press and hold the button on the remote you want to program.
4. Enter the code from the code list.
5. Release button, and then press ON•OFF to see if the component responds to the remote commands. If it doesn't, try pressing the component button and then ON•OFF again.
6. If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote commands.

USING THE REMOTE TO CONTROL A DEVICE

Once the remote has been programmed successfully, you are ready to use it to control your devices.

To operate the device:

1. Press the device button (TV, VCR1, VCR2, DVD, AUX, or SAT•CABLE) to set the remote to control the device.
2. Press ON•OFF to turn the device ON or OFF.
3. Use the remote buttons that apply to that device.

MODES OF OPERATION

Because this universal remote can control several different components (DVD player, VCR, Cable Box, etc.) it uses operational modes triggered by the component buttons. For example, if you want the remote to control the TV, you would press the TV button to put the remote into TV mode before you could control the TV.

FRONT PANEL

If you cannot locate your remote you can use the front panel of your TV to operate many of the TV's features.

MENU Brings up the Main menu. When in the menu system, it selects highlighted items. Also returns you to the previous menu.

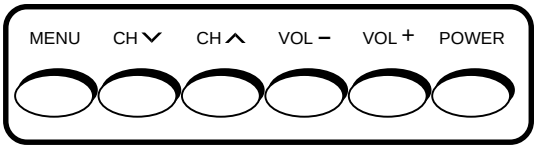
CH v Scans down through the current channel list. In the menu system, it points down to items and adjusts menu controls.

CH ^ Scans up through the channel list. In the menu system, it points up to items and adjusts menu controls.

VOL – Decreases the volume. When in the menu system, VOL – is used to point left to items and adjust menu controls.

VOL + Increases the volume. When in the menu system, VOL + is used to point right to items and adjust menu controls.

POWER Turns the TV on and off.



The front panel above shows a typical button layout. The exact look of the buttons may be different from those on the front of your TV.

The Front Panel Block feature disables all front panel buttons if Parental Controls are locked. For more information, see Parental Control, in the *Features and Menus* section.

CODE LIST

VCR

Admiral 2131
Adventura 2026
Aiko 2027
Aiwa 2002, 2026
Akai 2003, 2004, 2005, 2007, 2008, 2111,2112, 2113
American High 2021
Asha 2013
Audio Dynamics 2009, 2010
Audiovox 2014
Bell & Howell 2011
Beaumark 2013
Broksonic 2012, 2025
Calix 2014
Candle 2013, 2014, 2015, 2016, 2017, 2018, 2019
Canon 2021, 2022, 2114
Capehart 2020, 2110
Carver 2062
CCE 2027, 2061
Citizen 2013, 2014, 2015, 2016, 2017, 2018,2019,2027
Colortyme 2009
Colt 2061
Craig 2013, 2014, 2023, 2061
Curtis-Mathes ..... 2000, 2002, 2009, 2013, ... 2016, 2018, 2021, 2022, 2024, 2115
Cybernex 2013
Daewoo 2015, 2017, 2019,2025, 2026, 2027, 2028, 2110
Daytron 2110
Dbx 2009, 2010
Dimensia 2000
Dynatech 2002, 2026
Electrohome 2014, 2029
Electrophonic 2014
Emerson ..... 2002, 2012,2014, ... 2015, 2021, 2024, 2025,2026,2029, 2030, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2044, 2045, 2047, 2065, 2105, 2113, 2116, 2117, 2130
Fisher . 2011, 2023, 2048, 2049, 2050, 2051, 2052,2118
Fuji 2021, 2119
Funai 2002, 2026
Garrard 2026
GE 2000, 2001, 2013, 2021, 2022, 2053, 2115, 2120
Goldstar 2009, 2014, 2018, 2054, 2121
Gradiente 2026
Harley Davidson 2026
Harman Kardon 2009
Harwood 2061
Headquarter 2011
Hitachi2002, 2055, 2056, 2057, 2107, 2111, 2120, 2122
HI-Q 2023
Instant Replay 2021
JCL 2021
JC Penney ..... 2009, 2010, 2011, 2013, 2014, 2021, ... 2022, 2055, 2056, 2058, 2059, 2060, 2107, 2118
Jensen 2055, 2056, 2111
JVC 2009, 2010, 2011, 2018, 2058, 2111, 2123
Kenwood 2009, 2010, 2011, 2016, 2018, 2058, 2111,2123
KLH 2061
Kodak 2014, 2021
Lloyd 2002, 2026
Logik 2061
LXI 2014
Magnavox 2021, 2022, 2062, 2063, 2104, 2108, 2124
Magnin 2013
Marantz ..... 2009, 2010, 2011, ... 2016, 2018, 2021, 2058, 2062,2064
Marta 2014
Masushita 2021
MEI 2021
Memorex ..... 2002, 2011, ... 2013, 2014, 2021, 2023, 2026, 2104, 2131
MGA 2029, 2065, 2113
MGN Technology 2013
Midland 2053
Minolta 2055, 2056, 2107
Mitsubishi .. 2029, 2055, 2056, 2065, 2066, 2067, 2069, ... 2070, 2071, 2072, 2073, 2074, 2106, 2113, 2123
Montgomery Ward 2075, 2131
Motorola 2021,2131
MTC 2002, 2013, 2026
Multitech 2002, 2013, 2016, 2026, 2053, 2061
NEC ..... 2009, 2010, 2011, 2016, 2018, ... 2058, 2064, 2076, 2078, 2079, 2111, 2123
Nikko 2014
Noblex 2013
Olympus 2021
Optimus 2014, 2131
Optonica 2096
Orion 2035
Panasonic 2021, 2022, 2109, 2125, 2126, 2127
Pentax 2016, 2055, 2056, 2107, 2120
Pentex Research 2018
Philco 2021, 2022, 2062, 2063
Philips 2021, 2062, 2096, 2124
Pilot 2014
Pioneer 2010, 2055, 2080, 2081, 2123
Portland 2016, 2017, 2019, 2110
PROSCAN 2000, 2001
Protec 2061
Pulsar 2104
Quarter 2011
Quartz 2011
Quasar 2021, 2022, 2125
RCA ..... 2000, 2001, 2003, 2013, 2021, ... 2055, 2056, 2082, 2083, 2084,2085, 2086,2087, ... 2088, 2089, 2090, 2091, 2107, 2115, 2120, 2125
Radioshack/Realistic ..... 2002, 2011, 2013, 2014 . 2021, 2022, 2023, 2026, 2029, 2049, 2050, 2096, 2131
Radix 2014
Randex 2014
Ricoh 2128
Runco 2104
Samsung 2005, 2013, 2015, 2033, 2053, 2112
Sanky 2131, 2104
Sansui 2010, 2092, 2111, 2123
Sanyo 2011, 2013, 2023
Scott ... 2012, 2015, 2025, 2032, 2035, 2038, 2065, 2093, 2116
Sears ..... 2011, 2014, 2021, 2023, 2048, ... 2049, 2050, 2051, 2055, 2056, 2107, 2118
Sharp 2002, 2017, 2029, 2094, 2095, 2096, 2131
Shintom 2004, 2056, 2061, 2098
Shogun 2013
Signature 2002, 2131
Singer 2021, 2061, 2128
Sony 2002, 2004, 2098, 2099, 2119, 2128
STS 2021, 2107
Sylvania 2002, 2021, 2022, 2026, 2062, 2063, 2065, 2124
Symphonic 2002, 2026
Tandy 2002, 2011
Tashiko 2014
Tatung 2058, 2111
TEAC 2002, 2026, 2058, 2085, 2111
Technics 2021, 2109
Teknika 2002, 2014, 2021, 2026, 2100, 2129
TMK 2013, 2024, 2047
Toshiba 2015, 2049, 2051, 2055, 2065, 2093, 2116
ToteVision 2013, 2014
Unitech 2013
Vector Research 2009, 2010, 2015, 2016
Victor 2010
Video Concepts 2009, 2010, 2015, 2016, 2113
Videosonic 2013
Wards ..... , 2002, 2013, 2014, 2015, 2021, 2023, 2026, .. 2029, 2055, 2056, 2061, 2096, 2101, 2102, 2103, 2107, 2116, 2131
XR-1000 ..... 2021, 2026, 2061
Yamaha 2009, 2010, 2011, 2018, 2058, 2111
Zenith 2004, 2098, 2104, 2119, 2128

Cable Boxes

ABC 5002, 5003, 5004, 5005, 5006, 5007, 5053
Antronix 5008, 5009
Archer 5008, 5009, 5010, 5011
Cabletenna 5008
Cableview 5008
Century 5011
Citizen 5011
Colour Voice 5012, 5013
Comtronics 5014, 5015
Contec 5016
Eastern 5017
Garrard 5011
GC Electronics 5009
Gemini 5018, 5019, 5049
General Instrument 5003
Hamlin 5020, 5021, 5022, 5035, 5045
Hitachi 5003
Hytex 5002
Jasco 5011
Jerrold 5003, 5005, 5007,5018, 5023, 5024, 5046, 5053
Magnavox 5025
Memorex 5026
Movie Time 5002, 5027, 5028
NSC 5002, 5027, 5028
Oak 5002,5016, 5029
Panasonic 5048, 5052
Paragon 5026
Philips 5011, 5012, 5013, 5019, 5025, 5030, 5031, 5032
Pioneer 5033, 5034
Pulsar 5026
RCA 5047, 5049, 5052
Realistic 5009, 5049
Regal 5022, 5035
Regency 5017
Rembrandt 5003
Runco 5026
Samsung 5014, 5034
Scientific Atlanta 5006, 5036, 5037, 5038
Signal 5014, 5018
Signature 5003
SL Marx 5014
Sprucer 5052
Starcom 5007, 5018, 5053
Stargate 5014, 5018
Starquest 5018
Tandy 5040
Teleview 5014
Tocom 5004, 5023, 5041
Toshiba 5026
Tusa 5018
TV86 5027
Unika 5008, 5009, 5011
United Artists 5002
United Cable 5053
Universal 5008, 5009, 5010, 5011
Videoway 5044
Viewstar 5015, 5025, 5027, 5040
Zenith 5026, 5050, 5051

Satellite Receivers

Chapparal 5056, 5057
Drake 5058, 5059
GE 5000, 5001
General Instuments 5060, 5061, 5062
Panasonic 5075
Primestar 5076
PROSCAN 5000, 5001
RCA 5000, 5001
Realistic 5063
Sony 5072
STS1 5064
STS2 5065
STS3 5066
STS4 5067
Toshiba 5068
Toshiba 5073
Uniden 5069

Audio

(For RCA and Dimensia brands only)

AM/FM 4003
Aux 4004
Phono 4005
CD 4007
Tape 4006

USING THE MENU SYSTEM

THE MENU SYSTEM

This section explores the menus of your TV—beginning with some information on using menus and control panels.

Each menu is then outlined and special features are detailed to help you get the most from your TV.

1 SETUP AND CONNECTIONS

2 INTERACTIVE SETUP

3 USING THE REMOTE

4 USING THE MENU SYSTEM

5 FEATURES AND CONTROLS

6 REFERENCE

USING THE MENU SYSTEM

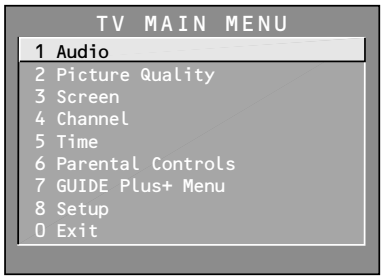
MENUS AND CONTROL PANELS

Using the buttons on both the remote and front panel enable you to access and make changes to the menus, control panels, and choice lists.

Menus and choice lists use the point and select rule to navigate, but control panels use a variety of methods to adjust features on your TV. The following pages detail how to use these controls to customize the functions of your TV.

MENUS

The first menu is called the Main menu. Press MENU on the remote or on the front panel to bring up the Main menu:



Menus take you to another menu or a control panel. There are two ways to select a choice in a menu:

- Point with the arrows and then select with OK.
- Press a number button on the remote. For example, in the Main menu press 3 to go straight to the *Screen* menu.

Exiting a menu

There are three ways to exit a menu:

- Point to *Exit* and press OK.
- Press 0 on the remote.
- Press CLEAR. The on-screen displays are cleared from the screen and you return to TV viewing.

Feel free to explore the menu system. If you're ever unsure where you are in the menu system, or you're just plain tired of exploring, press CLEAR to remove the menus from the screen and start over again.

USING THE MENU SYSTEM

CONTROL PANELS

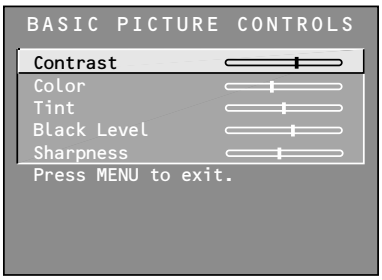
Control panels allow you to adjust the default settings on many features of your TV. You can choose a setting, enter a number, or adjust a level such as tint or brightness. There are three types of control panels: sliders, choice lists, and numeric entry.

Sliders

Sliders are used to make adjustments to a particular control.

To use a Slider in a menu:

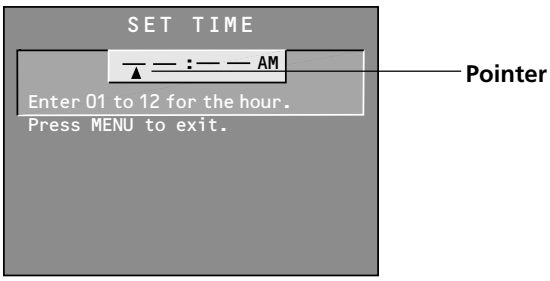
1. Press the up or down arrow to select the slider control for the feature you want to adjust.
2. Press the right or left arrow to adjust the indicator line on the slider.



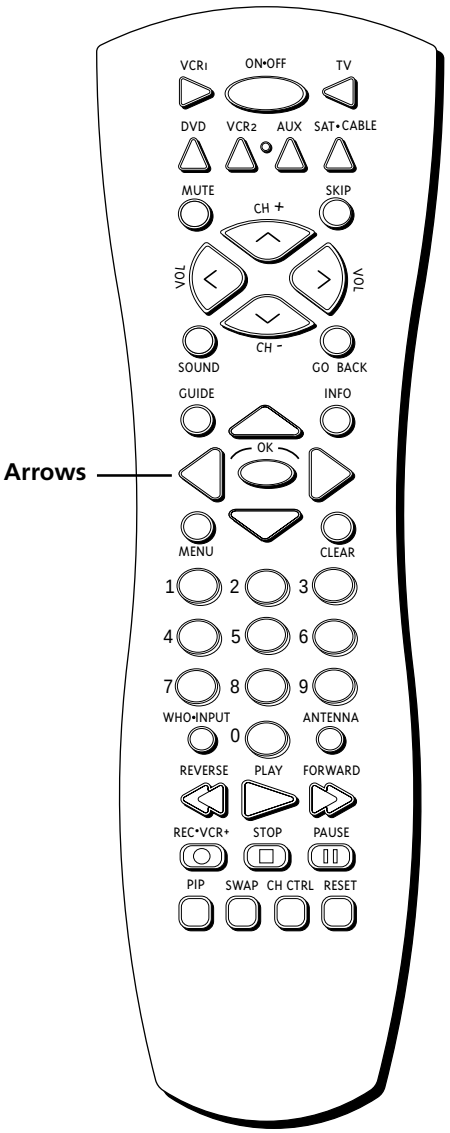
Numeric Entry

A numeric entry control panel is used to enter numbers or letters.

A pointer appears underneath the column you are changing.



1. Use the digits to enter a number in the column above the pointer.
2. Press the right arrow to move to the next column, then use the digits to enter a number.
3. When you have finished entering information, press OK.



If the control panel is not set to the current time, use the arrows to go back over the columns and the digits to make changes.

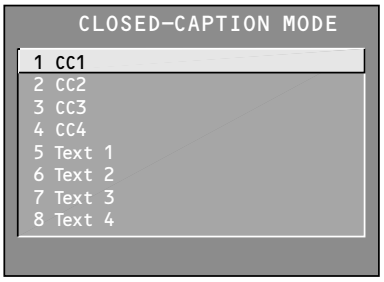
You can also enter numbers by using the up and down arrows on the remote.

USING THE MENU SYSTEM

CHOICE LISTS

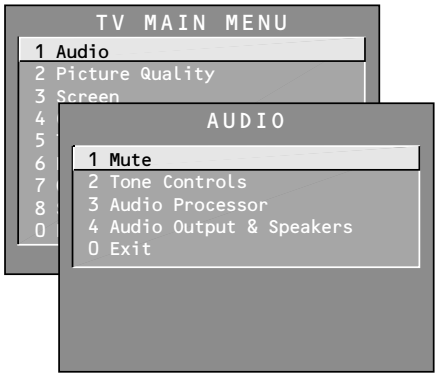
Choice lists are used to choose a particular setting from a list. When the choice list appears, the highlighted item is the one that is currently selected, or "in use."

Point to a choice on a menu and press OK to select that choice. You will then return to the previous screen.



Now that you know how to access the menus and adjust the control panels the following pages provide a brief explanation of all the menu features. The features are organized in order of their location on the Main Menu.

AUDIO MENU



Mute Press OK to reduce the TV's volume to its minimum level. Press OK again to restore the volume.

Tone Controls Displays the slider controls for adjusting the TV's treble, bass and balance.

Audio Processor Displays a choice list of available audio modes, which control the way the sound comes through your speakers.

> **Mono** Plays the sound in mono only. Use this setting when receiving broadcasts with weak stereo signals.
>
> **Stereo** Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The TV displays the word STEREO when you tune to a program that is broadcast in stereo.
>
> **Sound Logic Stereo** Reduces the annoying blasts in volume during commercial breaks, and also amplifies softer sounds in program material. Eliminates the need to constantly adjust volume control.

Second Audio Program (SAP) Plays the program's audio in a second language, if one is available. The TV displays the word SAP when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono. SAP is also used to broadcast a program's audio with descriptions of the video for the visually impaired.

Audio Output & Speakers Displays a choice list that lets you turn the TV's internal speakers on or off and set the audio outputs to fixed-level or variable control level.

Variable Output, Speakers On This setting turns the TV's speakers on and allows variable output from the TV's audio output jacks.

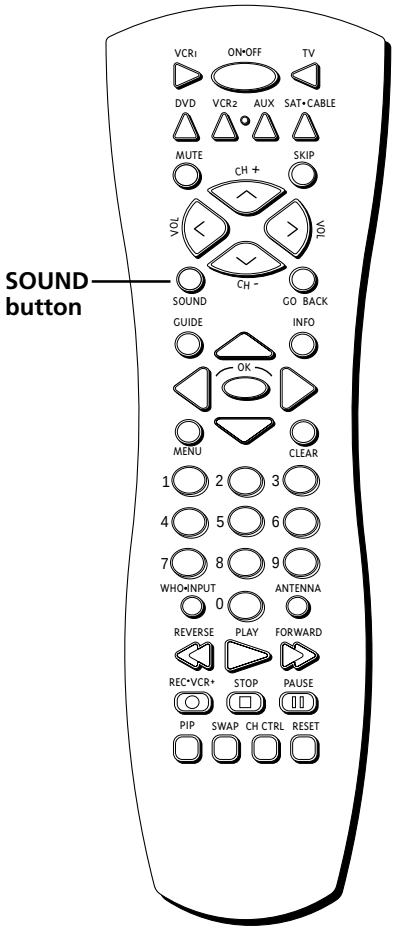
Variable Output, Speakers Off This setting turns the TV's speakers off and allows variable output from the TV's audio output jacks.

Fixed Output, Speakers Off This setting turns the TV's speakers off and allows fixed output from the TV's audio output jacks to an external device such as a surround sound amplifier. With Fixed Output On, the TV's volume control, tone controls and mute are disabled.

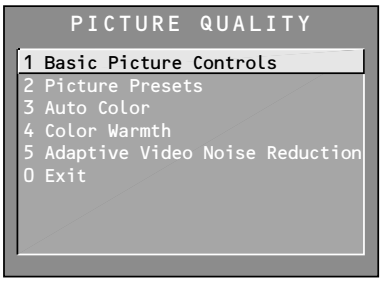
USING THE REMOTE TO SELECT AN AUDIO PROCESSOR

You can change the audio processor from the Audio menu, as illustrated above, or by pressing the SOUND button on the remote. To make a selection using the remote:

1. Press SOUND to display the audio processor choice list.
2. Point to and select a different audio processor or press CLEAR to exit.



PICTURE QUALITY MENU



Projection TV Picture Quality menu

Basic Picture Controls Displays the five slider controls for adjusting the way the picture looks.

Contrast Adjusts the difference between the light and dark areas of the picture.

Color Adjusts the richness of the color.

Tint Adjusts the balance between the red and green levels.

Black Level Adjusts the brightness of the picture.

Sharpness Adjusts the crispness of edges in the picture.

When exiting this menu, the *Save Personal Picture Preset* choice list will appear. You can choose either Yes or No. If you save the settings as a Personal Picture Preset, the TV will store the settings so you can reselect them easily if someone changes the settings.

Picture Presets Displays a choice list that lets you select one of four preset picture settings: *Bright Lighting*, *Normal Lighting*, *Soft Lighting or Personal Picture Preset*. Choose the setting that is best for your viewing environment.

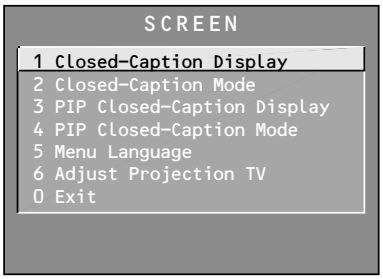
Auto Color Displays a choice list that lets you turn on the feature that automatically corrects the color of the picture. (This is especially useful for tracking realistic flesh tone colors as you switch from channel to channel.) Choose *On* or *Off*, depending on your preference.

Color Warmth Displays a choice list that lets you set one of three automatic color adjustments: *Cool* for a more blue palette of picture colors; *Normal*; and *Warm* for a more red palette of picture colors. The warm setting corresponds to the NTSC standard of 6500ºK.

Video Noise Reduction Displays a choice list that lets you turn on the feature that automatically reduces noise from the picture.

Press the RESET button on the remote to bring up the Picture Control Presets choice list. Point to the desired setting; press OK to select it.

SCREEN MENU



Projection TV Screen menu

Closed-Caption Display Displays a choice list that lets you choose the way closed captioning information is shown on the screen.

Off No captioning information is displayed.

On Captioning information is shown always, when available.

On When Sound is Muted Captioning information is shown, when available, whenever the TV's sound is muted. (To mute the sound, press the MUTE button.) The captioning information is not displayed when the sound is not muted.

Closed-Caption Mode Displays a choice list that lets you choose which captioning mode is used for displaying captioning information.

PIP Closed-Caption Display Displays a choice list that lets you choose the way closed captioning information is shown in the PIP window.

Off No captioning information is displayed.

On Captioning information is shown always, when available.

Alternate with PIP button Captioning information is shown, when available, when the PIP button is pressed and the PIP window is displayed.

PIP Closed-Caption Mode Displays a choice list that lets you choose which captioning mode is used for displaying captioning information within the PIP window.

Menu Language Displays a choice list that lets you select your preferred language for the menus: *English*, *Spanish* or *French.*

Adjust Projection TV Lets you adjust the TV's three colors. Selecting *Green Centering* brings up a control panel that lets you center the green projection tube on the screen. Selecting *Red Convergence* or *Blue Convergence* lets you align the red and blue projection tubes.

Center the green projection tube first. Then, adjust the red and blue projection tubes until the test patterns on the TV screen appear white.

Your projection TV has three color projection tubes - one for red, one for green, and one for blue. When the tubes are precisely aligned, they create the color images you see on the TV screen. Over time, the picture can drift out of alignment due to normal component aging, bumps and vibrations or moving the TV. If you notice rings or halos around objects in the picture, you may want to readjust the picture tubes.

USING CLOSED CAPTIONING

Many programs are encoded with closed captioning information, which lets you display the audio portion of a program as text on the TV screen.

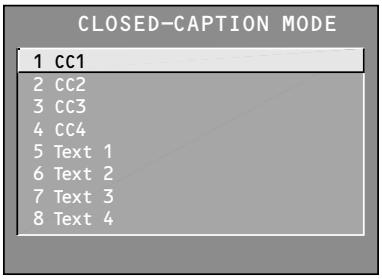
Closed captioning is not available on all channels at all times. Only specific programs encoded with closed captioning information are applicable. When a program is closed captioned, the letters CC are displayed in the channel marker. See the section *Features and Controls* for more information about the channel marker.

Closed Captioning Modes

The TV offers eight closed-captioned modes, including four text modes.

To set the Closed-Captioning Mode:

1. Select *Screen* from the Main menu.
2. Point to *Closed-Caption Mode* and press OK. A choice list displays:



3. Point to your choice and press OK to select it and return to the Screen menu.

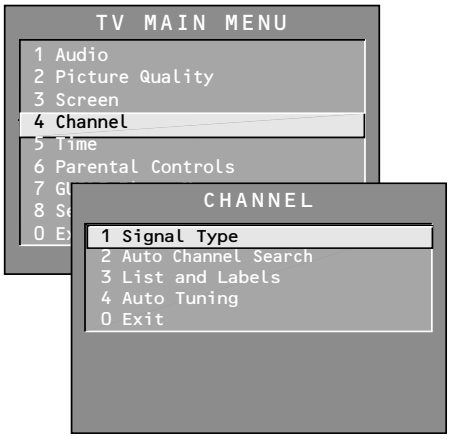
Turning off Closed Captioning

1. Select *Screen* from the Main menu.
2. Press OK to select *Closed-Caption Display.*
3. Point to *Off Always* and press OK. The closed captioning is turned off and you are returned to the Screen menu.

If you are unsure of the differences among the modes, you may prefer to leave the closed captioned mode set to CC1, which displays complete text of the program in the primary language in your area.

USING THE MENU SYSTEM

CHANNEL MENU



Signal Type Displays a choice list that lets you select the current antenna type. This option does not appear when the GUIDE Plus+ system is set up.

UHF/VHF Antenna Choose this if you are currently using an off-air antenna for TV signals.

Cable TV Choose this if you are currently using cable or a cable box for TV signals.

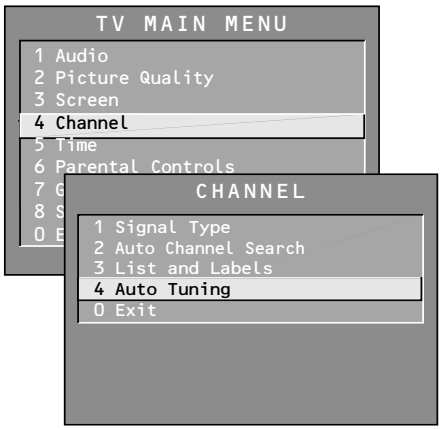
Auto Channel Search Tells the TV to search automatically for all the channels available through the antenna input. When the TV finds an active channel, it places it in the Normal channel list; inactive channels (weak stations or channels with no signal at all) will be removed from the channel list. If you are using a cable box and have set up the GUIDE Plus+ system then this option does not appear.

List and Labels Displays a control panel that lets you edit your Normal channel list and choose a six-character label for each channel. Follow the on-screen directions to enter your channels and other information.

Chan # Use the up and down arrows to scroll up and down through the channels available via your antenna. You can enter the channel number directly using the number buttons.

Normal List Only the channels included in the Normal list are available when you scan up and down using the CH^/v buttons. Use the up and down arrows to indicate whether the channel number indicated is included (*Yes*) or is not included (*No*) in the Normal channel list.

Chan Label Use the up and down arrows to enter a six-character label for each channel. Hold the button down to scroll quickly through the characters. Press RESET to clear a label. **The TV can store up to 27 labels in memory.**



Auto Tuning Displays a choice list that lets you set up the TV to automatically tune to the correct input channel when you press a component button (VCR1, DVD, VCR2 or SAT•CABLE) on the remote.

Set VCR 1 Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the VCR1 button.

Set VCR 2 Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the VCR2 button.

Set DVD Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the DVD button.

Set SAT/CABLE Channel Displays a choice list that lets you select the channel that the TV tunes to when you press the SAT•CABLE button.

The choices for each screen are:

Not connected Choose this if you do not have a component connected to an antenna or video input on the back of the TV, or if you don't want the TV to tune to a channel when the particular component button is pressed.

Channel 2 (SAT/Cable only) Choose this if your component is connected to the antenna jack on the back of the TV, and you want the TV to tune to channel 2 when you press the specified component button. Reminder: Make sure the component's Ch 2/3/4 switch is set to channel 2.

Channel 3 Choose this if your component is connected to the antenna jack on the back of the TV, and you want the TV to tune to channel 3 when you press the specified component button. Reminder: Make sure the component's Ch 3/4 switch is set to channel 3.

Channel 4 Choose this if your component is connected to the antenna jack on the back of the TV, and you want the TV to tune to channel 4 when you press the specified component button. Reminder: Make sure the component's Ch 3/4 switch is set to channel 4.

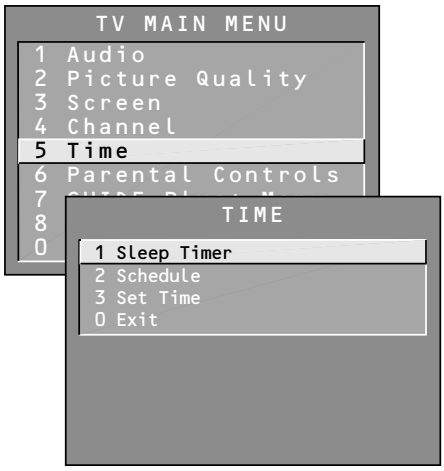
Video Input1/Video Input2 Choose this if your component is connected to the VIDEO jack on the back of the TV and you want the TV to tune to VID (S-VID if you used an S-Video cable) input channel when you press the specified component button.

TIME MENU

Sleep Timer Displays a control panel that lets you select the amount of time you want to give the TV before it shuts itself off.

Schedule Displays a control panel that lets you set up a schedule for turning the TV on and off automatically. **Make sure to turn the schedule On.** The on-screen directions guide you through the steps needed to set the schedule.

Set Time Displays a control panel that lets you enter the current time. The on-screen directions guide you through the steps needed to set the time. If your GUIDE Plus+ system is set up and running then it will automatically update your time and this option will not be available.



OTHER MENUS

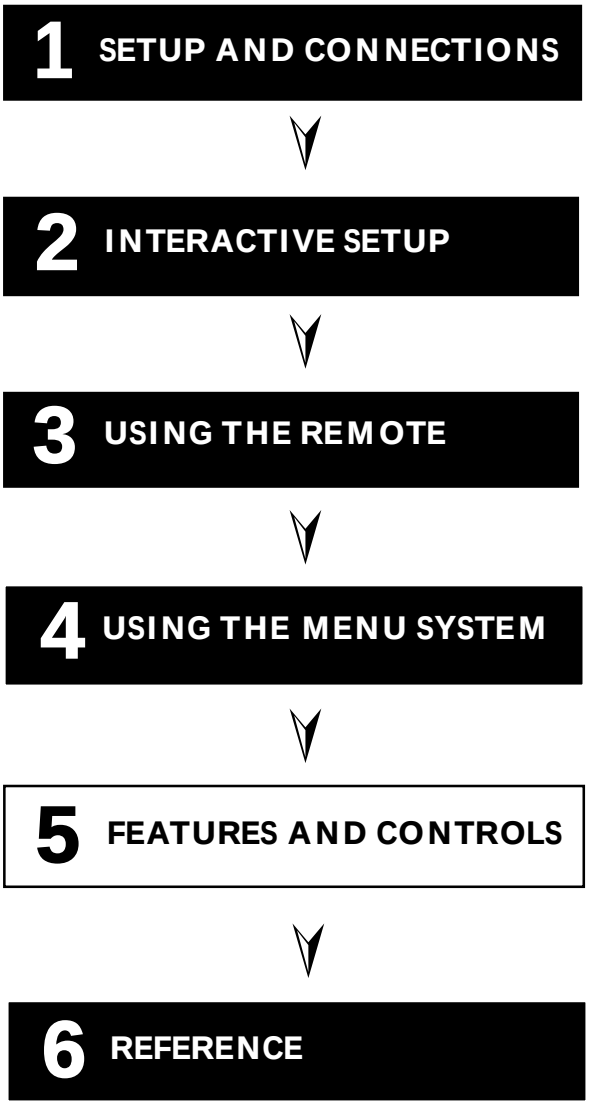
The rest of the menus—Parental Controls, GUIDE Plus+ menu, and Setup—are also detailed in this manual. Look for the GUIDE Plus+ setup routine and the Setup menu in the section *Interactive Setup*. Descriptions of how to use Parental Controls and the GUIDE Plus+ menu are in the section *Features and Controls*.

FEATURES AND CONTROLS

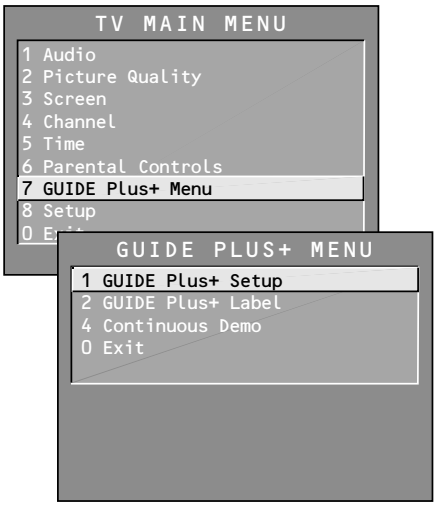
HOW TO USE THE FEATURES AND CONTROLS

This section introduces you to the features and controls with which your TV is equipped. In this section, you will learn how to use:

- The GUIDE Plus+ Menu system
- PIP (Picture-In-Picture) control
- Parental controls, including V-Chip rating limits



GUIDE Plus+ MENU



You can access the GUIDE Plus+ menu directly by pressing GUIDE on the remote, or by pressing MENU on the remote and then selecting *GUIDE Plus+ Menu.* If you press MENU on the remote, you can access several other features the GUIDE Plus+ system offers:

GUIDE Plus+ Setup Displays the GUIDE Plus+ setup screen.

Setup Setting up the GUIDE Plus+ system is detailed in the *Interactive Setup* section of the book.

View Demo Runs the GUIDE Plus+ system demonstration.

Options Displays the GUIDE Plus+ autodisplay options

On Automatically displays the GUIDE Plus+ system when you use the TV button on the remote to turn on the TV.

Off Disables the GUIDE Plus+ system from being displayed when you use the TV button on the remote to turn on the TV.

GUIDE Plus+ Label Displays the GUIDE Plus+ label menu.

On Displays the station name when you change channels.

Off Disables the Label feature.

Continuous Demo Runs the GUIDE Plus+ demonstration until it is turned off. To end the Continuous Demo, press MENU.

The following sections tell you more about the GUIDE Plus+ system, how to use it, and how it works.

ABOUT THE GUIDE Plus+ SYSTEM

The GUIDE Plus+ system is an interactive on-screen program guide that lists TV schedules for your area and allows your TV direct control of a cable box and VCR. You must first set up the GUIDE Plus+ Menu system in order to view it (see the *Interactive Setup* section for more details).

To bring up the GUIDE Plus+ screen, press GUIDE.

There are six sections to a GUIDE Plus+ screen:

- A row of Action buttons at the top of the screen numbered 1, 2 and 3
- Program information
- A row of Menu options
- Channel listings
- Advertising and special show information
- Live Video Window

FEATURES AND CONTROLS

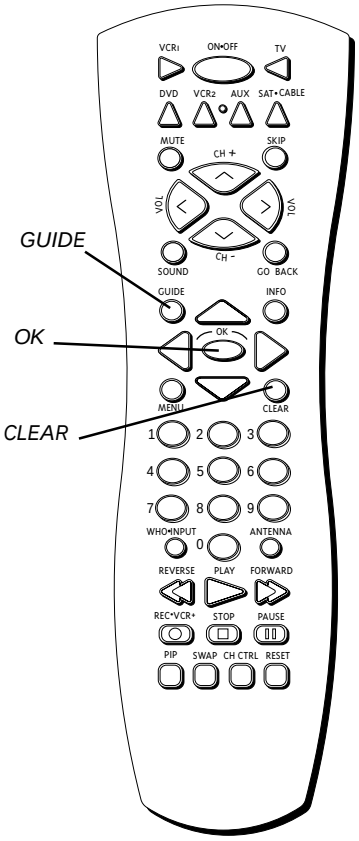
GETTING IN & OUT OF THE GUIDE Plus+ SYSTEM

To enter the GUIDE Plus+ system:

- Press GUIDE on the remote.

There are three ways to exit the GUIDE Plus+ system:

- Press OK to exit the GUIDE Plus+ system and tune to the channel highlighted in the Channel listing.
- Press GUIDE to exit the GUIDE Plus+ system and tune to the channel displayed in the View window.
- Press CLEAR to exit the GUIDE Plus+ system and return to the original channel.
- Press INFO to get more information about a program, channel, or advertisement.



DOWNLOADING DATA

The GUIDE Plus+ system is not available until it completes its first download of program information. When the power is turned off, the TV locates a "host channel" that carries GUIDE Plus+ data containing program schedule and channel mapping information. A channel map is the list of stations and their respective channels.

To ensure that your first download of data is complete, you should leave your TV off overnight. Downloads occur several times a day. *The TV must be turned off for GUIDE Plus+ data to download.*

If the TV loses power or is unplugged, GUIDE Plus+ program information may be lost. When power is restored, make sure the setup information is still correct. The GUIDE Plus+ program will complete a download at the next available time.

Channel Mapping

If more than one cable company services your area, you may be prompted with a Channel Mapping screen after the first GUIDE Plus+ download. You will need to identify your cable company by selecting the correct channel numbers for the stations in question.

- Use the left and right arrows to change the channel group and press OK when the correct channel group is highlighted.

THE DIFFERENT GUIDE Plus+ SYSTEM MENUS

The GUIDE Plus+ system offers seven different options on the Menu bar: GRID, SORT, NEWS, SCHEDULE, MESSAGES, EDITOR and SETUP. To access the Menu bar:

1. Press GUIDE to bring up the GUIDE Plus+ screen.
2. Press MENU or use the up and down arrows to highlight the Menu bar. The Grid Guide comes up by default.
3. Use the left and right arrows to access other menus.
4. Press OK, MENU, or use the down arrow to access the menu options.

Since the program information provided by the GUIDE Plus+ system is based on your locale, you will need to run Setup again if you move.

GRID GUIDE

The Grid Guide appears each time you enter the GUIDE Plus+ menu system. It displays the current programming for each channel. The live program is displayed in the video window.

- Use the up and down arrows to browse channel listings and CH ^/v to page through listings. Use the right and left arrows to browse future program listings.
- To tune to a channel, highlight the program you want to view in the channel listing and press OK. Press CLEAR to exit the GUIDE Plus+ system and return to the original channel. Press GUIDE to exit the GUIDE Plus+ system and tune to the channel in the view window.

GUIDE Plus+ screens illustrated in this book are representations of what you are likely to see. Not all channels, programs, and GUIDE Plus+ information depicted will be available in your area.

New features and options can be downloaded to the GUIDE Plus+ system, so these too are subject to change.

Grid Guide Action Buttons

Action buttons will change according to where you are in the GUIDE Plus+ system. Be sure to look at the action bar before pressing the command numbers.

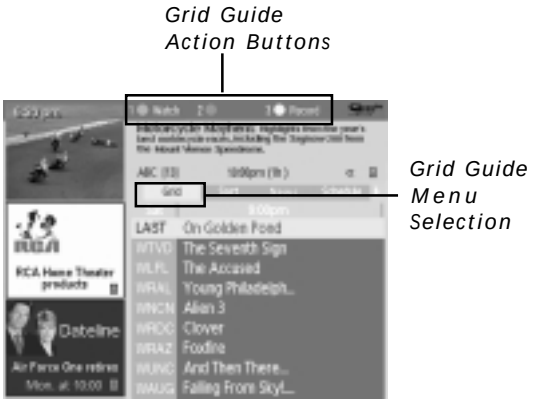
When highlighting the Channel listings, the following Action buttons are available on the bar:

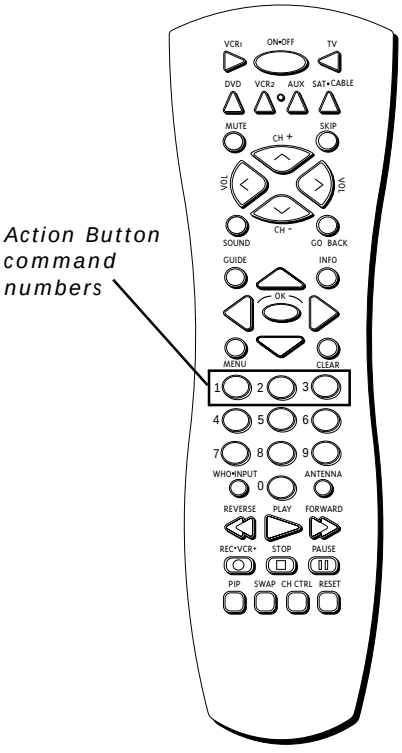
- **Watch** Press 1 on the remote to place a timer in the Schedule for the TV to turn on and tune to the program highlighted in the Channel listing. When the TV turns on, the GUIDE Plus+ system will automatically appear with the scheduled program highlighted and tuned in the View window so long as *Autodisplay* is enabled.
- **Record** Press 3 on the remote to place a timer in the Schedule for the VCR to record the program highlighted in the Channel listing. If you have a cable box, changing channels on the TV will not cause the cable box channel to change while recording.

The Program information window will display a confirmation when you have successfully created a timer to watch or record. If you have selected two programs to watch or record which begin at the same time or overlap, you will receive a timer conflict message. The GUIDE Plus+ system will not schedule a conflicting timer, therefore you must choose between the two programs.

When highlighting the Channel names (the left column on the Channel listing), the following Action button is available on the bar:

- **Lock/Unlock** Press 1 to lock or unlock the video window to either stay at one channel as you browse the GUIDE Plus+ system (lock) or change as you browse through different channels (unlock). The PIP button on the remote also toggles between the locked and unlocked states.

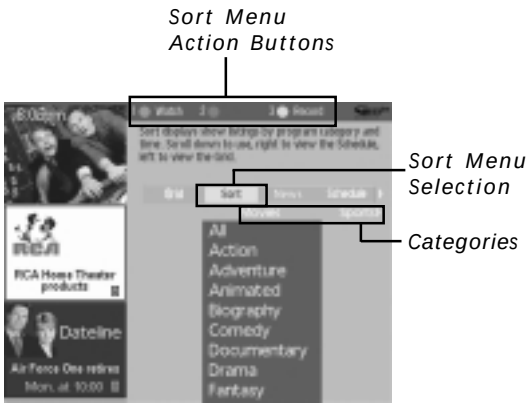




SORT

The Sort Menu lets you browse programs by category. The channel to which you are currently tuned is displayed in the video window. To sort:

1. Press MENU on the remote to highlight the Menu bar.
2. Use the arrows to highlight Sort. When Sort is highlighted for the first time, the *Movies* category is displayed. Thereafter, the last category used becomes the default. A listing of subcategories is displayed below the category name.
3. Use the up and down arrows to highlight a subcategory. For example, highlight *All* and press OK.
4. When the listing comes up, *All Movies* are displayed. Use the up and down arrows to browse the list one at a time. Use CH^ and CHv to browse through the list one page at a time. You can also view the next seven days' programming by pressing the right arrow.
5. Select MENU to return to the menu bar, or press GUIDE or CLEAR to exit the GUIDE Plus+ system.



Sort Menu Action Buttons

When viewing the results of a Sort, the following Action buttons will appear on the bar:

- **Watch** Press 1 on the remote to place a timer in the Schedule, and then follow the online help for further options. Placing a timer in the Schedule will cause the TV to turn on and tune to the program highlighted in the Channel listing at the predetermined time. When the TV turns on, the GUIDE Plus+ system will automatically appear with the scheduled program highlighted and tuned in the View window so long as *Autodisplay* is enabled.
- **Record** Press 3 on the remote to place a timer in the Schedule for the VCR to record the program highlighted in the Channel listing. If you have a cable box, changing channels on the TV will not cause the cable box channel to change while recording.

Be sure that during the GUIDE Plus+ setup you specified that you have a VCR. If you do not, the RECORD option will not be available.

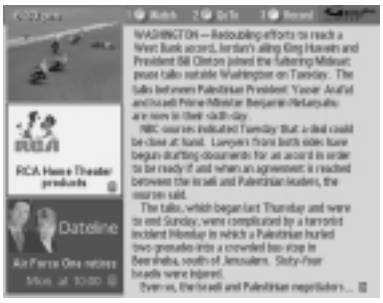
The program information window will display a confirmation when you have successfully created a timer to watch or record. If you have selected two programs to watch or record which begin at the same time or overlap, you will receive a timer conflict message. The GUIDE Plus+ system will not schedule a conflicting timer; you must choose between the two programs.

NEWS

The News Menu lets you browse current news stories by headline.

1. Press Menu on the remote to highlight the Menu bar.
2. Use the arrows to highlight News.

3. Use the up and down arrows to highlight a story.
   • Use the up and down arrows to browse the list one at a time. Use CH^ and CHv to browse through the list one page at a time.
4. Press the right to see full text.
5. Select Menu to return to the menu bar, or press GUIDE or CLEAR to exit the GUIDE Plus+ Gold system.



SCHEDULE

The Schedule menu lets you create timers for either viewing or recording programs. The GUIDE Plus+ system allows one-button recording if you have connected the IR controller to your VCR. See the *Setup and Connections* section of this manual for more details on connecting the IR controller.

To schedule a program to watch or record:

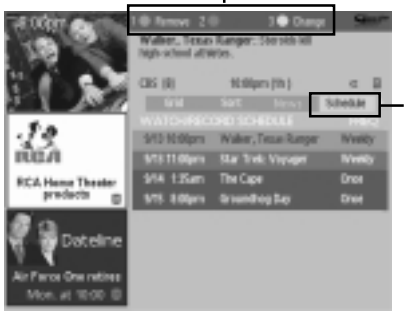
1. Press GUIDE to bring up the GUIDE Plus+ system.
2. Highlight a program within the Channel listing.
3. Select Watch or Record from the Action buttons bar. The timer is then automatically logged into the Schedule menu.
4. If you select Record, make sure to place a blank tape in the VCR.

The program information window will display a confirmation when you have successfully created a timer to watch or record. If you have selected two programs to watch or record which begin at the same time or overlap, you will receive a timer conflict message. The GUIDE Plus+ system will not schedule a conflicting timer, therefore you must choose between the two programs.

To remove or change the frequency (daily, once, or weekly) of a scheduled event, access the Schedule Menu from the Menu bar.

1. Press GUIDE to bring up the GUIDE Plus+ system.
2. Press MENU to highlight the Menu bar.
3. Use the arrows to highlight the *Schedule* menu selection.
4. Use the up and down arrows to highlight the program you want to edit. Then use the Schedule Menu Action Buttons as described in the next section.

Schedule Menu Action Buttons



Schedule Menu Selection

Schedule Menu Action Buttons

When viewing the Schedule menu the following Action buttons will appear on the bar:

- **Remove** Highlight the Watch or Record timer you wish to remove from the schedule and press 1 on the remote.
- **Change** Highlight the Watch or Record timer you wish to change and press 3 on the remote to toggle the frequency between the following choices:

  DAILY records the same program each day Monday through Friday.

  ONCE records only on that day.

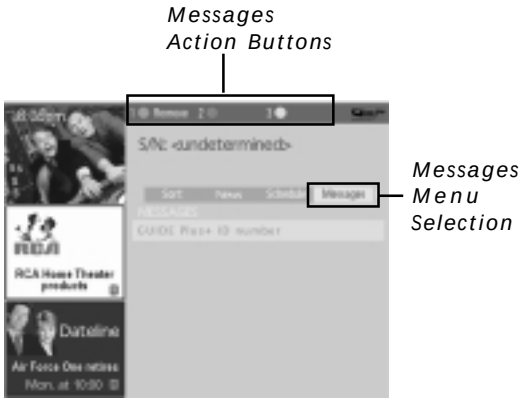
  WEEKLY records the program each week at the same time.

MESSAGES

Occasionally you will receive messages regarding your GUIDE Plus+ system, as well as special programming information. You can access these messages from the Message Menu on the Menu bar.

To read messages:

1. Press MENU on the remote to select the Menu bar.
2. Use the arrows to highlight the Messages menu selection.
3. Highlight the message you wish to read by using the up and down arrows.
4. Press INFO to display the full text of the message. If the text continues beyond the screen, press INFO to view the next page of text. Once you have reached the end of the message, pressing INFO closes the expanded information and returns you to the Messages screen.
5. Then use the Messages Menu Action Button as described in the next section.



Messages Menu Action Button

When viewing the Messages menu the following Action button will appear on the bar:

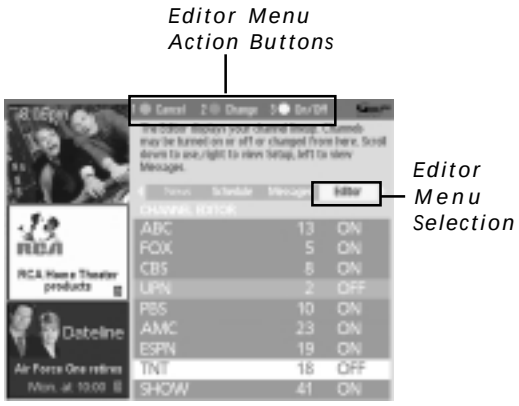
- **Remove** Highlight the message you wish to delete and press 1 on the remote.

EDITOR

You may customize the channel listing by enabling or disabling the display of certain channels. For instance, you may disable channels that you never watch. You can restore disabled channels at a later point in time.

1. Press GUIDE to bring up the GUIDE Plus+ system.
2. Press MENU to highlight the Menu bar.
3. Use the right and left arrows to highlight the *Editor* menu selection.
4. Use the up and down arrows to select a channel.

Then use the Editor Menu Action Buttons as described in the next section.



Editor Menu Action Buttons

While browsing the Editor menu, the following Action buttons are available on the bar:

- **Cancel** Press 1 on the remote to cancel any changes made since entering the Editor Menu.
- **Change** Press 2 on the remote to change the channel number for the highlighted channel line.
- **On/Off** Press 3 on the remote to toggle the state of the channel between On and Off.

EXPANDED INFORMATION

To view more information about a program, advertisement or special, highlight the channel listing or ad/show information box and press the INFO button. Requesting more information about a particular show will also display the PlusCode programming number and the Shows on Next for that channel.

Pressing INFO while highlighting an ad panel will fill the screen with any additional and/or promotional information regarding that particular program.

Pressing the INFO button again exits the expanded information screen.

Ad/Show Information

TROUBLESHOOTING

Troubles sometimes are caused by simple "faults" that you can correct without a service technician. Here are a few basic remedies:

Program information does not download

- Review your setup information and make sure it is correct.
- The TV must be off to download information. Leave your TV off overnight, for at least 10 hours, to receive a download for your area.
- If you are using a cable box, make sure the cable box is on in order to receive program information.
- If you are using a VCR, make sure the VCR is off in order to receive program information.

Scheduled Watch or Record does not occur

- Check Schedule for timer conflicts.
- Check that IR controllers are attached securely and directly over the remote sensor.
- Make sure there is a tape in the VCR and that the VCR is properly connected.

PIP (PICTURE-IN-PICTURE) OPERATION

The PIP (picture-in-picture) feature lets you display a second, smaller picture on top of the main picture.

Your TV is equipped with a single tuner that tunes to cable or off-air television signals. The PIP feature on your TV requires a second video source, like a VCR or satellite receiver to supply the second picture to the screen. The PIP feature also requires connecting the second video source to the TV with audio/video cables.

PIP Buttons

There are four remote buttons that control the way the PIP window works:

PIP Brings up the PIP window. Press PIP again to remove the window. If you have selected the option labelled *Alternate with PIP* while in the *PIP Caption Display* menu, then you will be able to toggle closed captioning between the main screen and the PIP window by pressing the PIP button

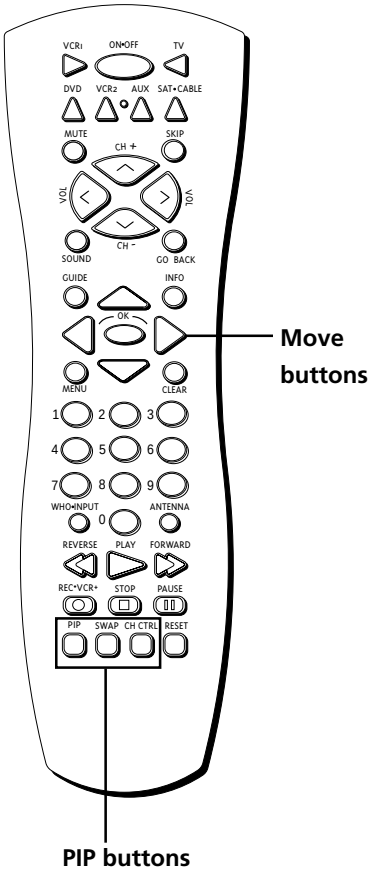
MOVE buttons Let you move the PIP window to different areas of the screen.

SWAP Switches, or "swaps," the video from the PIP window with the main picture.

CH CTRL (Channel Control) Lets you switch channel control between the PIP window and the main picture. To determine whether you are controlling the PIP or the main picture, bring up the Channel Marker (detailed on the following page). The yellow channel number is the one you are controlling.

For instance, press PIP to bring up the PIP window. You can change channels by entering digits or pressing the CH^/v. When you press the CH CTRL, the channel control switches to the main picture. You can now change channels in the main picture by entering digits or pressing CH^/v.

Press CH CTRL again to return the channel control to the PIP window.



Using the PIP Feature

While you may use PIP in different ways, this basic PIP scenario should get you started. While watching the TV, follow these steps to use your VCR to supply the picture for PIP.

1. Press the PIP button on the remote. The PIP window appears on the screen.
2. Turn on the VCR.
3. Press the TV button, then press WHO•INPUT until you see the VCR signal displayed in the PIP window. The PIP window should display the channel that you have the VCR tuned to.
4. To change the program in the PIP window, you need to change the channel on the VCR because that is the signal source for the PIP picture. Press the VCR button on the remote to get into VCR mode, then change channels.
5. Use the channel up and down buttons and the other PIP buttons, MOVE, SWAP and CH CTRL to adjust the two pictures. channel in the PIP window. If you see a channel that interests you, press SWAP.

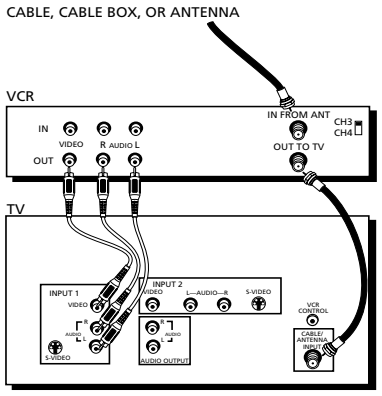
A typical use of SWAP is to scan through channels in the PIP window, and when you find a channel you like, press SWAP to display that channel in the main picture, sending the current channel to the PIP window.

You must change the mode between the TV and VCR after every SWAP.

PIP Problems?

- Make sure the remote is in the right mode. For example, once you turn on the VCR with the VCR1 button, you can't SWAP the pictures until you put the remote in TV mode. Just press the TV button.
- No signal or bad reception? Most VCRs and satellite receivers have an antenna or TV button. If your cable or off-air antenna goes into your VCR or satellite receiver, then into your TV, try pressing the antenna or TV button on the front of the component.

  Tip: If programmed to control your VCR, the ANTENNA button on the remote acts as a TV/VCR button.
- Check the connections. PIP requires a second video source, like a VCR or satellite receiver, connected to your TV with audio/video cables. If you use a cable box, you may need extra equipment. Contact your cable company for more information.



To see a different picture in the PIP window, you must connect another video source, like a VCR. This connection requires audio/video cables.

CHANNEL MARKER

There are several indicators that may come up when you press the TV, INFO, PIP, SWAP or the CHANNEL CONTROL buttons. This display is called the Channel Marker.

12:01 Displays the current time.

CC Displayed when Closed Captioning is available on the current channel.

ESPN Displays the label assigned to the current channel.

60 Displays the current channel or input channel. If yellow, pressing channel up and down changes this channel.

Mute (or Stereo) Mute is displayed when you mute the audio. Stereo is displayed when the current channel is broadcasting in Stereo.

SAP Displayed when the current channel is broadcasting SAP (Second Audio Program) information.

PIP 59 (PIP Chan) Displays the current PIP channel. If yellow, pressing channel up and down changes the PIP channel.

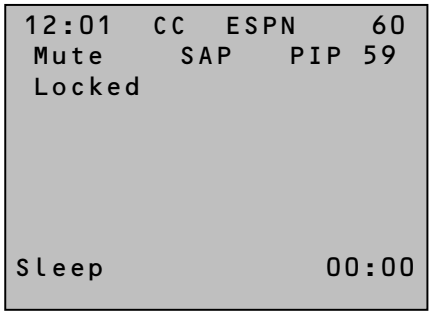
Locked Displayed when Parental Controls are locked. "Unlocked" will be displayed when Parental Controls are unlocked.

Sleep Displayed when the Sleep Timer has been set.

00:00 Displayed to count down time left on the commercial skip (SKIP) timer.

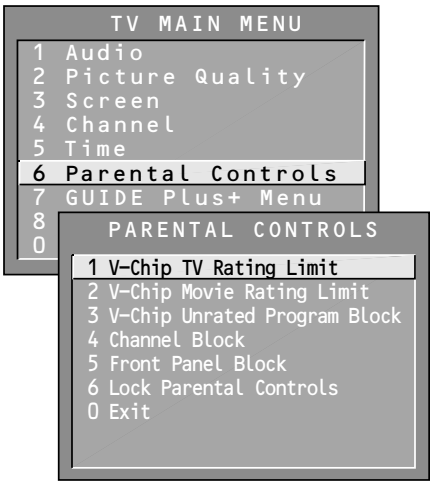
You can program the TV to tune to a specific channel when you press the VCR1, SAT•CABLE, DVD and VCR2 buttons. This is an easy way to tune the PIP window to the correct video input channel.

Check out the auto tuning feature in the *Interactive Setup* and *Using the Menus* sections.



Sample display on a Channel Mark

PARENTAL CONTROLS AND V-CHIP



The Parental Controls menu allows you to program your TV so that children cannot see certain programs, channels, or use the front panel controls.

The first three choices in the Parental Controls menu involve software inside your TV (dubbed V-Chip) which allows you to "block" TV programs and movies based on violence, sex, or other content you may believe children should not view. In other words, it lets you program your TV so it will not display certain programs. Once you block programs, you or other adults are not limited to only parent-approved programs; you can "unblock" programs by entering a password.

The software inside your TV comes turned "off," so if you choose not to implement it, you can just ignore it.

When turned "on," the software reads a code that most broadcasters send with programs. That code tells the software the program's age-based rating (TV-MA, TV-14, etc.) and content themes (Violence (V), Adult Language (L), etc.). If you have blocked the rating and/or content themes that the program contains, you will receive the message, "This channel is not approved for viewing," when you turn to that particular channel. Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given a rating of "Not Rated," and programs that are considered "unrated" because no code has been sent by the broadcaster.

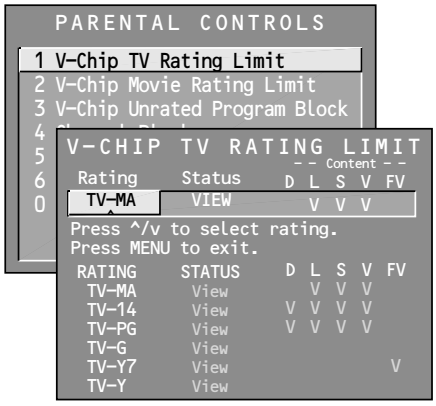
The TV age-based ratings and content themes you can block are listed in the table below.

Age-Based Rating	Description and Content Themes for Age-Based Ratings
TV-MA	Mature Audience Only. Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: **graphic violence (V), explicit sexual activity (S), or crude indecent language (L).**
TV-14	Parents Strongly Cautioned. Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: **intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).**
TV-PG	Parental Guidance Suggested. Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: **moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).**
TV-G	General Audience. Most parents would find this program suitable for all ages. It contains **little or no violence (V), no strong language (L) and little or no sexual dialogue (D) or situations (S)**.
TV-Y7	Directed to Children 7 years and older. Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild **fantasy violence (FV)** or comedic violence, or may frighten children under the age of 7.
TV-Y	All Children. Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

V-CHIP TV RATING LIMIT

The V-Chip TV Rating Limit lets you decide what TV programs can and cannot be viewed.
To set TV programming limits:

1. Choose *Parental Controls* from the Main menu. If Parental Controls have previously been locked, you must enter your password. If they are not locked, you will get a message reminding you that your limits will not be effective until you lock Parental Controls.
2. Press MENU to continue.
3. Highlight and select *V-Chip TV Rating Limit*.
4. Once you get to the V-Chip TV Rating Limit screen, use the arrows and OK on your remote to change the status of a TV program rating or content theme from *View* to *Block*.



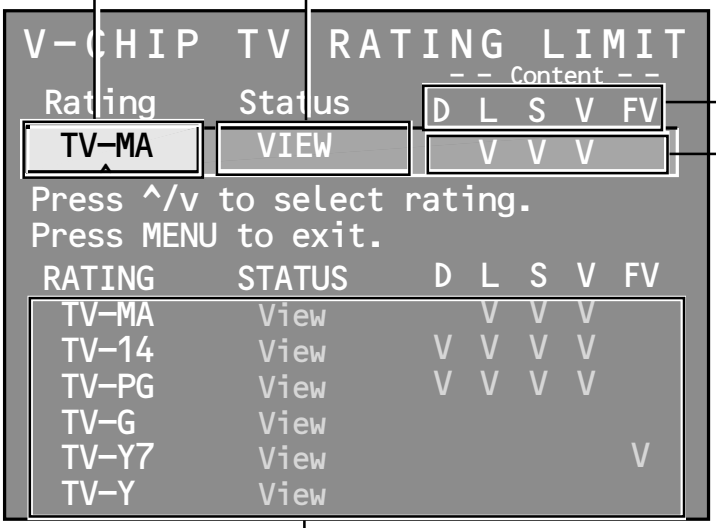
The following sections give you more details about how to change the status of TV program limits.

The Ratings Limits Screen

Below is an example of where items are located within the Rating Limits screen.

Rating Field
Lets you select from a list of age-based ratings you can block or view.

Rating Status Field
Lets you select whether the status of the age-based rating limit to the left is View or Block.



Content Themes
Lists the content themes you can block or view.

Content Status Fields

Lets you select which content themes to view for the selected rating, and whether the status of the content theme is currently View (V) or Block (B).

Rating Settings Area
Lets you see the current block/view state of age-based ratings and associated content. The View (V) settings are coded in green, and the Block (B) settings are coded in red.

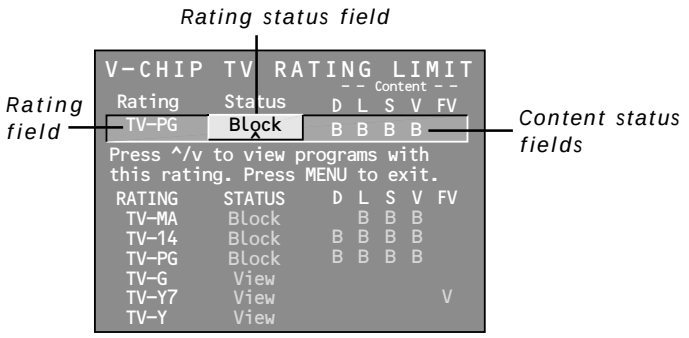
Blocking Age-Based Ratings

You can automatically block all program ratings above a specified age-based rating level. For example, if you only want your child to watch programs that have a TV-G rating and lower (in other words, you want the child to watch TV-G, TV-Y7, and TV-Y), then you need to block out other programming with higher ratings.

To block programs with higher ratings:

1. First, determine the lowest level rating you do not want the child to watch.
2. Use the left and right arrows to highlight the Rating Field.
3. Use the up and down arrows on the remote to scroll through the age-based rating limits. Keep scrolling until the rating corresponding with the lowest rating you do not want the child to watch appears.

   In the example discussed above, you would scroll through the rating field until TV-PG appears, since the highest rating you want the child to watch is TV-G.
4. Use the right arrow to move the yellow highlight to the rating status field.
5. Press the up or down arrow to toggle between *View* and *Block*. The status for the rating listed to the left and all higher ratings automatically changes to *Block* (and *B)*.



6. Press OK on the remote to return to the menu or exit the screen when you are finished.
7. Select Lock Parental Controls from the Parental Controls menu. Enter a password, and if you have not already set your password, you will be prompted to enter it again to confirm. If you have already entered your password at an earlier date, then the menu will show Unlock Parental Controls. Select this and enter your previously programmed password.

When you change the status of a rating to *Block*, the system will automatically block higher ratings and all corresponding content themes.

Hierarchy of Age-Based Ratings	
TV-MA	**Mature Audience Only**
TV-14	**Parents Strongly Cautioned**
TV-PG	**Parental Guidance Suggested**
TV-G	**General Audience**
TV-Y7	**Directed to Children 7 years and older**
TV-Y	**All Children**

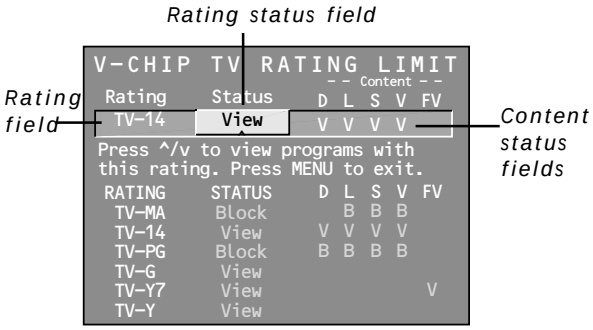
Pressing RESET on the remote will reset all ratings to View and V.

Viewing Age-Based Ratings

After you block age-based ratings, you have the option of changing some of the ratings back to *View*.

1. Determine which blocked rating you want to view.
2. Use the left and right arrows to highlight the Rating Field.
3. Use the up and down arrows to select the rating whose status is *Block*.
4. Press the right arrow to move the yellow highlight to the rating status field.
5. Press the up or down arrows to toggle between *View* and *Block*.

Note that the content status fields corresponding to the unblocked rating become *View* as well. They and the age-based rating status are the only fields that automatically change back to *View* when you complete this process.



You must remember to Lock Parental Controls for rating limits to take effect.

Blocking Specific Content Themes

You can block programs based on their content. (Content is represented by the D, L, S, V, and FV on your screen. See the beginning of this section for details.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.

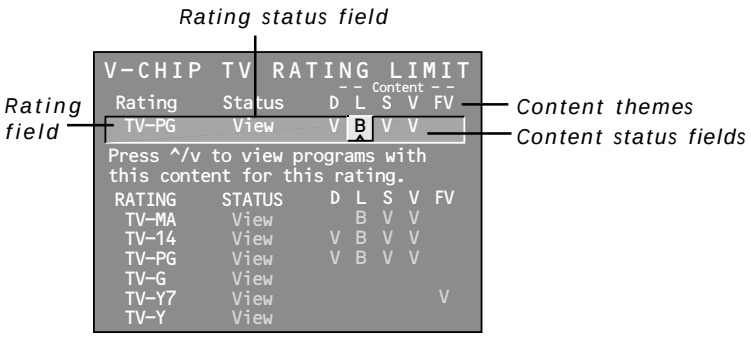
For example, if you do not want your child to watch programs that have adult language (L) rated TV-PG or higher, then you could block out all programming TV-PG and above containing adult language.

To block program content:

1. Determine the lowest level of content you do not want the child to watch.
2. Use the left and right arrows to highlight the Rating Field.
3. Use the up and down arrows on the remote to scroll through the age-based ratings until the rating that corresponds with the lowest content you do not want the child to watch appears. (In the example above, you would scroll through the ratings until the TV-PG rating appeared.)
4. Press the right arrow to move the highlight to the field corresponding with the content theme you wish to block out.
5. Press the up or down arrow to change content status from *V* to *B*. All higher ratings' content theme will automatically change to *B*.

Content Themes	
D	**Sexually Explicit Dialogue**
L	**Adult Language**
S	**Sexual Situations**
V	**Violence**
FV	**Fantasy Violence**

Broadcasters are not required to provide content themes or age-based ratings. Programs received with no content themes will only be blocked if you block their age-based rating.



You must remember to Lock Parental Controls for rating limits to take effect.

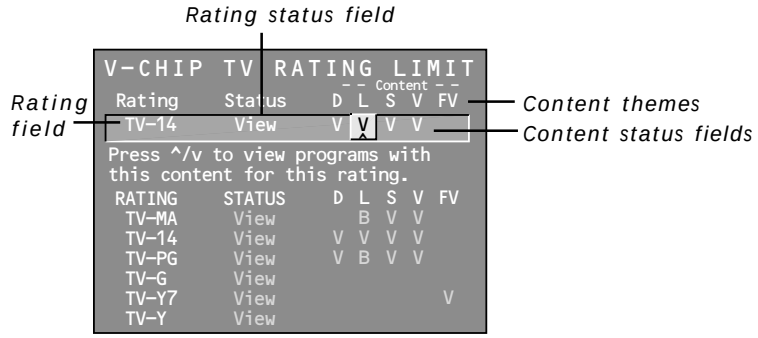
6. Press OK to return to the menu or exit the screen.

Viewing Specific Content Themes

If you block specific content themes, you have the option of going back and changing some of the content themes back to View (V):

Pressing RESET on the remote will reset all ratings to View and V.

1. Determine the content themes you want to change to View (V).
2. Use the left and right arrows to highlight the Rating Field.
3. Use the up and down arrows to scroll through the age-based ratings until the rating whose content theme you want to change to *View* appears.
4. Press the right arrow to move the yellow highlight to a particular content theme status, such as the *B* under language (L) corresponding with TV-14.
5. Press the up or down arrows to change its status back to *V*. Your child would then be able to watch programs with TV-14 adult language content, but not programs with TV-PG or TV-MA language content.



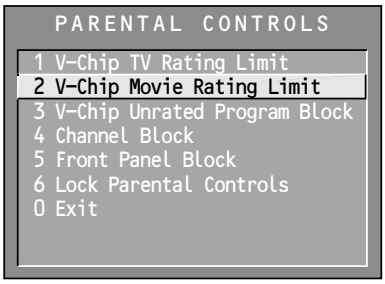
Note that only the content theme status corresponding to TV-14 language (L) changes to View (V). Higher rated content themes, such as that for TV-MA language, do not change.

V-CHIP MOVIE RATING LIMIT

You set movie rating limits by blocking movies rated above a specified level.

Blocking Movie Ratings

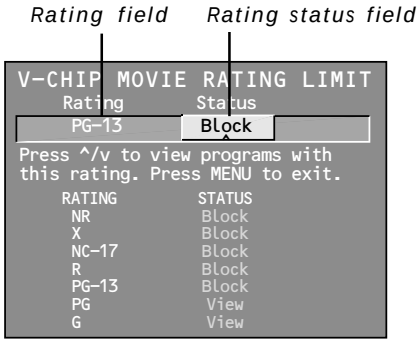
If you only want your child to watch movies that have a PG rating and lower (in other words, movies rated PG and G), then you could automatically block out all other movies with higher ratings.



To block movies:

1. Highlight the rating field and press the up and down arrows to find the rating that is the lowest rating you do not want the child to watch. (In the example above, you would point to the rating status button corresponding to PG-13, since the highest rating you want the child to watch is PG.)
2. Use the right arrow to highlight the rating status field. Press the up and down arrows to change the button from *View* to *Block*. All higher ratings' *View* buttons will automatically change to *Block*.

Some movies may be given a Not Rated (NR) rating. After blocking movie ratings, you must set NR to View separately to view NR movies.



3. Press OK to return to the menu or exit the screen.
4. If Parental Controls are not locked, you must lock them so the movie rating limits will take effect. See the section *Locking Parental Controls*.

You must remember to Lock Parental Controls for rating limits to take effect.

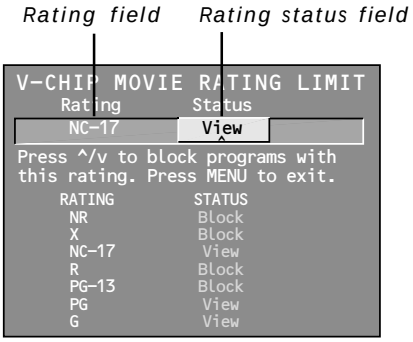
Viewing Movie Ratings

After you block movie ratings, you have the option of changing some of the rating status buttons back to View:

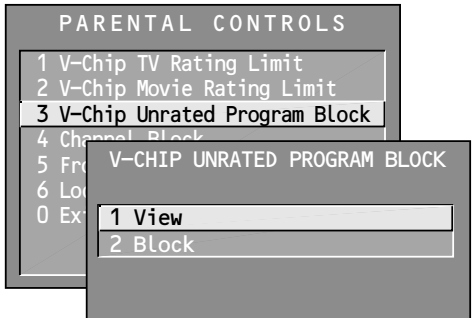
1. Highlight the rating field and press the up and down arrows to find the rating you want to view.
2. Use the right arrow to highlight the rating status field. Press the up and down arrows to change the button from *Block* to *View*.

For example, if movies with a rating of PG-13 and higher are blocked, you can change the rating status button corresponding with NC-17. Your child would then be able to watch all movies with a G, PG, and NC-17 rating.

3. Press OK to return to the menu or exit the screen, and be sure parental controls are locked (see the section *Locking Parental Controls*).



V-CHIP UNRATED PROGRAM BLOCK

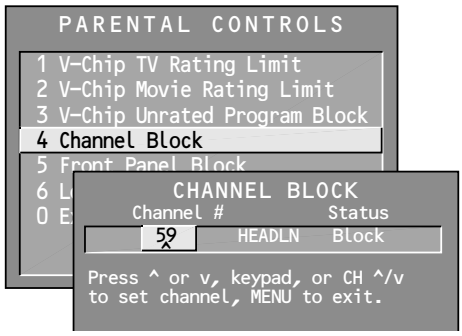


Selecting this option lets you decide if programs that the V-Chip recognizes as "unrated" can be viewed. Note that "unrated" TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings.

View All unrated programs are available.
Block All unrated programs are not available.

Don't forget to lock parental controls after you change the status of unrated program viewing. If you do not, the limit will not take effect.

CHANNEL BLOCK

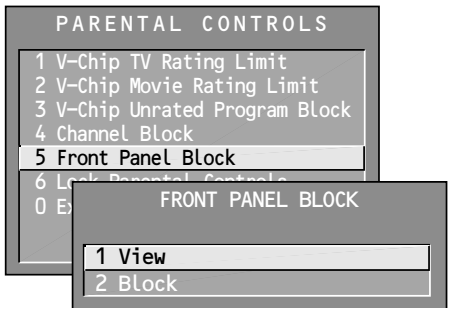


Selecting this option lets you decide what channels can be viewed.

View Makes the selected channel viewable.
Block The front panel and remote CH (channel) buttons will tune only to channels that you have marked as *View*. You may tune to a blocked channel manually by using the number buttons and entering the correct password.

Don't forget to lock parental controls after you change the status of Channel Block. If you do not, the channel block will not take effect.

FRONT PANEL BLOCK



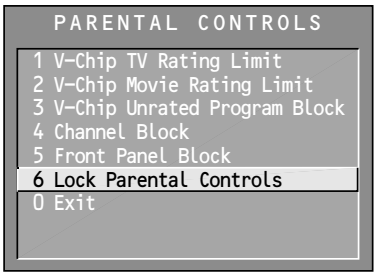
Selecting this option lets you block (disable) or unblock (enable) the TV's front panel. The remote still tunes to any channel. Front Panel Block can:

- Keep children from watching TV when the parent is not present.
- Keep small children from playing with the buttons.

(When using this as a Parental Control method, you should remove access to any remote capable of controlling the front panel while you have the Front Panel blocked.)

Don't forget to lock parental controls after you change the status. If you do not, the front panel block will not take effect.

LOCK/UNLOCK PARENTAL CONTROLS



Selecting this option lets you lock and unlock parental controls settings using a password.

If you do not lock parental controls, none of the settings for V-Chip, Channel Block, or Front Panel Block will take effect.

If you forget your password, press and hold TV on the remote and the MENU button on the television simultaneously for 3 seconds. Parental controls will then unlock and you can re-enter a password via *Lock Parental Controls*.

TROUBLESHOOTING

Troubles sometimes are caused by simple "faults" that you can correct without the help of a service technician. If you experience any difficulty with your TV, check a few basic remedies before calling your service technician.

TV will not turn on

- Check to make sure it is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Maybe batteries in remote control are "dead."
- Maybe remote control is not aimed at remote sensor.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Panel Block* in the Parental Controls menu and choosing *View*.

Controls don't work

- If using remote control, make sure remote is in TV mode by first pressing TV button.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Panel Block* in the Parental Controls menu and choosing *View*.
- Try unplugging set for two minutes and then plug it back in and turn it on again.

Problems with remote

- Maybe something is between the remote and the remote sensor.
- Maybe the remote is not aimed directly at the component (TV or VCR) you are trying to control.
- Maybe remote is not in TV Mode. Press the TV button so remote will control TV.
- Maybe batteries in remote are weak, dead or installed incorrectly. Try replacing batteries. (Note, if you remove the batteries, you may have to reprogram the remote to control other components.)
- Remove batteries and hold number 1 for at least 60 seconds to drain the microprocessor inside the remote. Release number 1, replace the batteries, and (if necessary) reprogram the remote.

Guide comes on when I turn on TV

- The GUIDE Plus+ system automatically comes up when you use the TV button on the remote to turn on the TV. You can turn off this feature by selecting *GUIDE Plus+ Auto Display* from the *Gemstar GUIDE Plus+ Menu*, and setting it to *Off*.

Turns off while playing

- Scheduled Off function may have been activated.
- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.

TV Turns on unexpectedly

- Scheduled On or Watch from the GUIDE Plus+ system may have been activated.

Blank screen

- Maybe the component connected to the input jacks is not turned on.
- Try another channel.
- Press RESET, in case the picture controls are set too low.

No sound, picture okay

- Maybe sound is muted. Try pressing volume up button to restore sound.
- Maybe speakers are turned off. Check the Audio Output and Speakers control panel in the Audio menu.
- If using an S-VHS component, remember to also connect the component's L and R AUDIO OUT jacks to the TV's L and R INPUT jacks.

Can't select certain channel

- Channel may be blocked or not approved in the Parental Controls menu.
- If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct "mode."

Noisy stereo reception

- May be a weak station. Use SOUND button to change to mono mode instead of stereo.

No picture, no sound but TV is on

- Maybe the cable/air setting is set to the wrong position. To fix, select *GUIDE Plus+ Menu* from the Main menu, select the *Setup* option, and provide the correct information on the following screens.
- Maybe a vacant channel is tuned.
- If watching VCR (connected only through antenna input), make sure TV is tuned to channel 3 or 4 – same as CH3/4 switch on VCR. Also check to make sure the TV/VCR button on the VCR is in the correct "mode."

Sound okay, picture poor

- Check antenna connections.
- Try adjusting sharpness function to improve weak signals.

Black box appears on the screen

- Captioning may be turned on. Check the Closed-Caption Display control panel in the Channel menu.

GUIDE Plus+ IR controllers not working

- Check to make sure the controllers are positioned correctly over the IR remote sensors.
- Your remote may be interfering with the IR controller. Place a piece of dark tape over the IR controller.
- GUIDE Plus+ system control of cable box is slower than direct control of the box itself. Keep this in mind when changing channels.

CARE AND CLEANING

CAUTION: Turn OFF your TV before cleaning.
You can clean the TV as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

The TV's screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water.

Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV.

While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, avoid placing drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV.

Caution: If fixed (non-moving) images are left on the screen for long periods, they may be permanently imprinted on the screen. Such images include network logos, phone numbers, and video games. This damage is not covered by your warranty. Extended viewing of channels displaying these images should be avoided.

RCA PROJECTION TV LIMITED WARRANTY

What your warranty covers:

- Any defect in materials or workmanship.

For how long after your purchase:

- One year for labor charges.
- One year for parts.
- Two years for picture tubes.

The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

What we will do:

- Pay any Authorized RCA Television Service Center the labor charges to repair your television.
- Pay any Authorized RCA Television Service Center for the new or, at our option, refurbished replacement parts and picture tubes required to repair your television.

How you get service:

- Request home service from any Authorized RCA Television Service Center, provided that your television is located within the geographic territory covered by an Authorized RCA Television Service Center. If not, you must take your television to the Service Center location at your own expense, or pay for the cost the Service Center may charge to transport your television to and from your home. To identify your nearest Authorized RCA Television Service Center, ask your dealer, look in the Yellow Pages, or call 1-800-336-1900.
- Show the Authorized Service Center Representative your evidence of purchase date or first rental.

What your warranty *does not* cover:

- Customer instruction. (Your Owner's Manual clearly describes how to install, adjust, and operate your television. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Signal reception problems not caused by your television.
- Damage from misuse or neglect.
- Batteries.
- Images burnt onto the screen.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- A television purchased or serviced outside the U.S.A.
- Acts of God, such as but not limited to lightning damage.

Product Registration:

- Please complete and mail the Product Registration Card packed with your television. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

How State Law relates to warranty:

- This warranty gives you specific legal rights and you also may have other rights that vary from state to state.

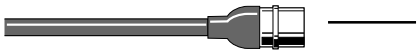
If you purchased your television unit outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

Accessory Information

Antenna (or cable-TV) connections are made with either coaxial antenna cable or twin-lead cable. Coaxial cables are shielded so they are less susceptible to hum or interference from adjacent cables.

Most audio/video connections between components can



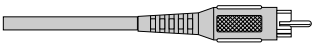
Push-on Connector

Screw-on Coaxial Connector

Round 75-ohm coaxial cable

Flat 300-ohm twin-lead cable

be made with shielded audio and video cables that have RCA-type phono connectors.



Standard Audio/Video cable with RCA-type phono plugs (such as No. VH83)

Color-Coded Jacks

The jacks on the TV's monitor panel are color-coded for ease of use. The video jacks are yellow, the right audio jacks are red, and the left audio jacks are white. When connecting components to each other, be sure that you always connect left outputs to left inputs and right outputs to right inputs. If a component has only one output (mono), connect it to the r/mono input jack.

To connect S-VHS (Super-VHS) components, an S-VHS video cable is required.

S-Video cable (such as No. VH913)

Gold-Plated Jacks and Gold-Tipped Cables

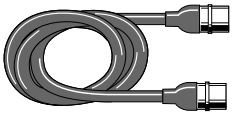
Gold plating helps prevent oxidation of contacts which provides much less loss than conventional contacts. A complete line of gold-tipped cables is available to help you obtain optimum performance from your equipment.

The following accessories are available from most dealers and electronics supply stores in case you want to position your components farther apart or need additional cables.

Antenna Cables

VH81 (3-ft)
VH82 (6-ft)

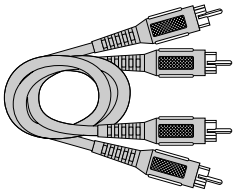
Screw-on Cable attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.



VH89 (6-ft)

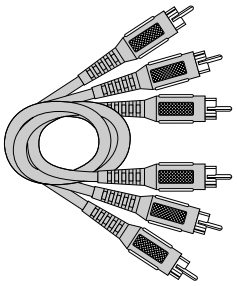
Push-on Cable attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. Ends push on for a quick connection.

Audio/Video Cables



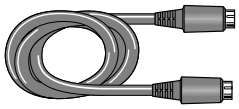
Gold-Tipped cable
VH83 (6-ft)

Monaural VCR Dubbing Cable Double cable that lets you connect the video and audio jacks of two VHS VCRs to duplicate tapes. Can also be used to connect a VCR to your TV. Cable is color-coded and shielded. Has RCA-type phono plugs on each end.



Gold-Tipped cable
VH84 (6-ft)

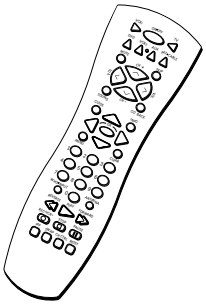
Stereo VCR Dubbing Cable Triple cable that lets you connect the VIDEO and AUDIO jacks of stereo components.



VH976 (6-ft)
VH913 (12-ft)

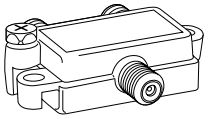
S-Video Cable has multi-pin connectors on each end for connecting S-Video components to your TV.

REFERENCE



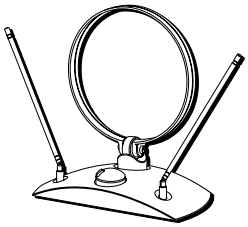
CRK76TA1

Remote Control This is the remote control that came packed with your TV. Replacements or spares can be ordered as needed.



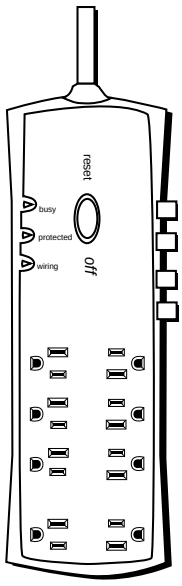
Splitter
VH47

2-way Signal Splitter helps you connect to a second TV or VCR.



ANT200

Amplified VHF/UHF/FM Antenna allows you to easily switch from the antenna signal to cable or satellite easily without disconnecting antenna.This comes complete with 75/300 Ohm band separator and matching transformer.



SCTV160

Cable TV and Satellite Surge Suppressor features 8 outlets and accommodates 4 large AC adapters, has 940 Joules, audible alarm, and diagnostic indicator lights. Includes $50,000 Equipment Guarantee.

Accessory Order Form

Description	Part No.	Price	Qty	
Screw-on antenna cable (3-ft)	VH81	$4.95		
Screw-on antenna cable (6-ft)	VH82	$6.95		
Push-on antenna cable (6-ft)	VH89	$5.95		
Monaural VCR Dubbing Cable (6-ft)	VH83	$5.95		
Stereo VCR Dubbing Cable (6-ft)	VH84	$9.95		
S-Video Cable (6-ft)	VH976	$7.95		
S-Video Cable (12-ft)	VH913	$8.95		
2-way Signal Splitter	VH47	$3.95		
Amplified Antenna	ANT200	$49.95		
Antenna Mixer	193984	$11.15		
Remote Control (CRK76TA1)	240895	$29.20		
Audio•Video Adapter	228449	$4.45		
Surge Suppressor	SCTV160	$49.95		

Prices are subject to change without notice.

Total Merchandise ..... $ _____

Sales Tax ..... $ _____

We are required by law to collect the appropriate sales tax for each individual state, country, and locality to which the merchandise is being sent.

Shipping and Handling ..... $ 5.00

Total Amount Enclosed ..... $ _____

Use VISA, MasterCard, or Discover Card preferably.

Money order or check must be in U.S. currency only.

No COD or CASH.

Detach Here

All accessories are subject to availability.

Please complete other side also

Charge your order on your VISA, MasterCard, or Discover Card by filling in below

USE YOUR CREDIT CARD

IMPORTANT: Copy complete account number from your VISA card

☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

My card expires: ☐☐ ☐☐

IMPORTANT: Copy complete account number from your MasterCard

☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Copy Number above your name on MasterCard ☐☐☐☐ My card expires: ☐☐ ☐☐

IMPORTANT: Copy complete account number from your Discover Card

☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

My card expires: ☐☐ ☐☐

_____

AUTHORIZED SIGNATURE
(Credit card order will not be processed without signature)

Print or type your name and address clearly.

A complete and correct order will save you days of waiting.

Name: _____

Street: _____

_____ Apt: _____

City: _____

State: _____ Zip: _____

Phone Number: _____

Please make sure that both sides of this form have been filled out completely.

- Allow 4 weeks for delivery.
- All accessories are subject to availability.
- Prices are subject to change

Placing An Order

To place your order by phone, have your Visa, MasterCard or Discover Card ready and call the toll-free number listed below between 8AM and 10PM (EST) Monday through Friday or between 9AM and 5PM (EST) Saturday.

Use this number only to place an order for accessory items listed on this order form.

1-800-338-0376

To place your order by mail, detach and mail the completed order form with credit card information, money order or check in US currency (made payable to Thomson Consumer Electronics, Inc.) to the following address:

Video Accessories
PO Box 8419
Ronks, PA 17573

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THOMSON CONSUMER ELECTRONICS

CREATING A GREENER FUTURE

At Thomson Consumer Electronics we are dedicated to the preservation of our natural heritage and to a healthy and safe way of life for current and future generations. This is a global effort which encompasses every THOMSON facility throughout the world.

We believe that clean air, clean water, a protected earth, and healthy people are not only practical and desirable goals, but achievable ones as well. Our Corporate Environmental, Health and Safety Charter acknowledges our commitment to protect these precious assets and provides a challenging vision and guideline for conducting our business.

Below are a few examples of Thomson's achievements in our efforts to preserve our natural resources.

THE EARTH

Thomson reclaims millions of pounds of hazardous waste annually, diverting it from landfills.

Thomson treats millions of pounds of waste water sludge annually and renders it non-hazardous.

Thomson recycles over 50 million pounds of non-hazardous material annually that otherwise would have been treated as trash, an overall recovery rate of 50%.

Thomson globally recycles millions of pounds of broken television picture tube glass annually through both internal and external reclaim processes.

THE AIR

Thomson has replaced solvent-based paints at many locations resulting in an 80% reduction in toxic air emissions for equivalent material used.

Thomson has eliminated the use of ozone-depleting substances at television manufacturing facilities around the world.

Thomson collects and returns over 1.5 million pounds of glass and furnace dust to the glass making process annually.

Thomson has launched worldwide energy savings programs which contribute to efforts to reduce air emissions from electrical generating facilities.

THE WATER

Thomson recovers over 2 million pounds of fine glass particles from process water each year and recycles them back into its glass furnaces.

Thomson's state-of-the-art waste water treatment plants filter out over 26 million pounds of solids from process water each year.

Thomson's U.S. glass factory recycles 2,500 gallons of water per minute and cleans 2.6 million gallons of water per day.

Thomson is researching new processes and is developing new manufacturing equipment and technologies to further reduce large volume water use.

Thomson has also increased its usage of recycled materials for packaging of our products. For example, in Mexico our television plants use recycled content in our television cartons and instruction booklets. The inks used for the print on cartons and instruction booklets are soy based. For a free brochure regarding Thomson's Environmental Health and Safety Programs, write to Thomson Consumer Electronics' address below, attention Environmental Programs: INH340.

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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